108-025-08 ENFORCEMENT ACTION FILES
207b UIC - EAST POPLAR OIL FIELD ENFORCEMEN

Release in Fill

Region 8 64429

108-025-08 ENFORCEMENT ACTION FILES 207b UIC - EAST POPLAR OIL FIELD ENFORCEMEN SDWA SEC. 1431 Folder ID: 64429 1981 Privileged



# BULE

A

ROOSEVELT CO., MONTANA

BUCKEES ""B-T

MAR02-0176

# CIRCULATING A. F. E.

Please Process and Keep Moving

Please	Process and keep	MACA IVAR	nitial		
Route ,		<u></u>			
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1	Canfield				
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	Morgan, J.	<del></del>	1-1·	.•	
2	Carter, A.		7/		
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MAR02-0177

## TEXAS OIL & GAS CORP.

### Inter-Office Memorandum

	Date July 22, 1981
To: A. D. Carter, Jr Dallas	From: R. G. Becker - Billings Operations Package
	Be: Buckles ''B'' #1
	Fast Poplar Prospect Roosevelt County, Montana

Attached for your approval is the operations package for the Buckles "B" #1. This 6000' well should gain + 10 feet of structure over the recently drilled TXO Buckles "A" #1 and the 1970 Mesa Biere #1-22 in the Charles "C" porosity zone. The Mesa well, 4000' southed of the proposed location, has flowed over 160 MBO along with a recorded 1.6 MBW. We estimate actual water production in excess of 6 MBW. Our Buckles "A" #1, 2000' southwest of the proposed location, gained three feet over the Mesa well at the top of the Charles, but was 2' low to the Mesa well in the porosity. Our latest test on the Buckles "A" #1 is 25 BOPD and 1065 BWPD at 450# FTP.

As shown on the attached maps, well control indicates about 10' of anticipated structure. Also attached is an overlay using seismic data acquired last week. It supports the anticipated structural advantage, predicting up to 30' of gain over Mesa's well.

Predicted economics, assuming 5' of structural gain and 25¢/Rbl water disposal costs into our existing water disposal well, are:

	Drilling & Completion Costs .	\$608,000	
	TXO Working Interest	100%	
	TXO Net Revenue Interest	83.33%	
	Gross Reserves	125 MBO H1	
	Initial Rate	50 BOPD, 1000 BWPD	
	Initial Oil Price	\$32.00	
	Success Probability Factor	80%	
•	ROI	3.3:1	
	ROR	48%	
	Payout	28.4 months	
	Lease Costs	\$104,000	]
	שלואלו ש		

Drell-81

R. G. B.

MAR02-0178

# WE RECONNENDATION MENO

ate: July 21, 1981		Prospect Na	ле: <u> </u>	st Poplar		
ecommended by: M. B. Wa	len	Location	: Sec22	2 Twp 28N Rg	ge_51E	
ell Name: <u>Buckles "B" #</u>	1		County	: Roosevelt	State Mon	tan
epth: 6000'						
rimary Objective Zone:	Charles ''C'	1	0i1_	X Gas		
eserves & Economics			٠			
Estimated Reserves:	MCF	125 M_B	0	SPF: 80%	<del></del>	
Reserve Method: Decli	ne Curves					
Reserve Parameters:	A:	Bg:				
	h:	RF:				
•	ø:	Sw:			•	
Economic Evaluation:	Price:	\$32.00/bbl				
	DCFROR:	48%				
	ROI:	3.3:1				
	Payback:	28.4 mos.				
Pipeline Delay: None	:	Ra	ate:			
Well Cost: P&A	\$355,000		TXO Net_	\$355,000		
Completed	\$608,000	·· ]	TXO Net_	\$608,000	<u> </u>	
Land .	•	· BPO.	APO			
TXO Working Intere	st:	100 %	100	<b>*</b>		
TXO Net Revenue In	terest:	83.33 %	83.33			
Land Cost: \$ 104,00	00 Acres:	80 Gro	ss <u>80</u>	Net		
Comments:			<u>-</u>			
Market: Marathon		Distar	ice to Pi	peline \Truc	12/	
Special Obligation				\ /	, 	
Remarks:						
<del></del>						

MAR02-0179

Signed: M. B. Walen MAR-179

Project Name:_	Buckles B	#1
Prepared By:	RGB	•
Date: July	10, 1981	

# TXO INVESTMENT APPRAISAL PROCEDURE Discounted Cash Flow (DCF) Worksheet (Volume in MBO ; Amounts in MB

12 11 16 9 Column 1 5 x .91 REVENUE CASH OPERATING EXPENSES CASH PRESENT PRESENT PRESENT NET Gross Het Variable OPERATING CAPITAL CASH AT () & VALUE AT 50 % VALUE Volume Volume Price G&A Expense Other Fixed Total REVENUE OUTLAYS Tax FLOW PERIOD Unit/Year Unit/Year \$/Unit Revenue 826 (826)0 (826) (826) 281.9 100 114.9 339.5 18.3 15.2 32.00 488.0 13.9 1.0 6 333.5 1 17.4 105 120.5 212.4 14.5 35.00 507.1 14.5 1.0 351.8 351.8 3 16.5 13.8 40.00 551.0 15.7 1.0 110 126.7 386.1 386.1 166.5 11.6 131.9 109.5 15.7 13.1 522.5 14.9 1.0 355.4 355.4 5 14.1 11.8 471.0 13.4 0.7 130.1 310.2 310.2 68.2 38.9 128.1 247.4 247.4 6 12.0 10.0 400.0 11.4 0.7 7 10.2 8.5 340.0 9.7 0.5 126.2 194.6 194.6 21.8 288.0 124.6 148.7 8 8.7 7.2 8.2 0.4 148.7 11.9 123.5 9 7.4 6.2 248.0 7.1 0.4 113.3 113.3 6.5 10 3.9 56.0 91.0 (56) 4.7 156.0 4.4 0.3147.0 6.0 TOTAL. 2538.0 776 97.6 -31.7 125.0

Memo:

TXO Net Interest = 83.33%

Tax Rate = .028% SeV, 9% NPT

GAA Expense Rate = \$.06/MBO

Other Variable Expense (Define):

Fixed is composed of:

a. OPEX

ь. SWD

Total Fixed Expense

DCF RATE OF RETURN =  $\frac{48}{801}$  PERCENT ROI =  $\frac{3.3:1}{28.4}$  MONTHS

> \$ Amount 10M\$/Yr. 254/Bbl x 1000 B/D 100 M\$/Yr., CSC 5%

List Initial Capital Outlays: Drilling 355

Completion 153

Prod. Equipment 100

Acquisition 104

Subtotal Initial Capital Outlays: SPF 80% 114

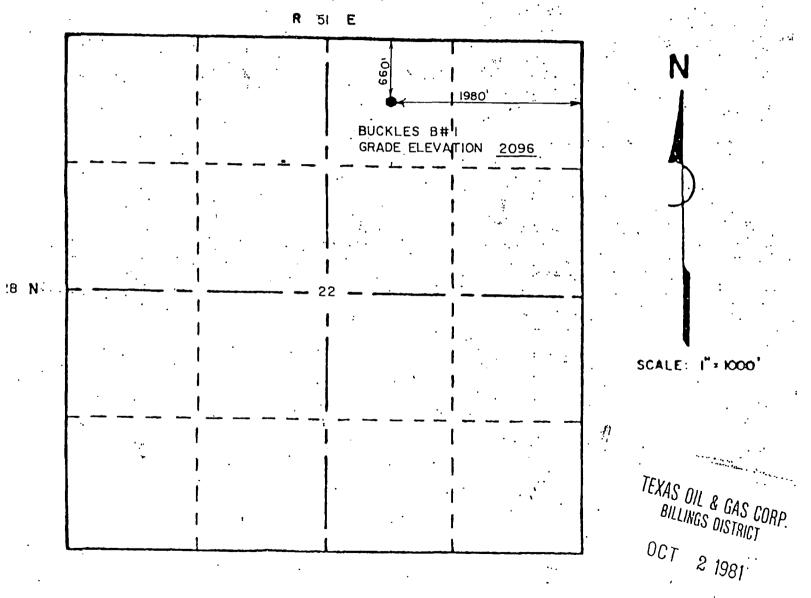
Less Salvage Value: TOTAL CAPITAL OUTLAYS: 50 <u>776</u>

Working Capital (Invested in Yr.1 & recouped in last year of the project): Average Annual Revenue X Rate = Working Capital Outlay 345 x .018 = 6

MAR02-0181 MAR-181 BUCKLES "B" #1 Sec. 22-T28N-R51E MONTANA Roosevelt County

LOCATION AND ELEVATION PLAT

NW NE SECTION 22, T 28 N, R 51 E ROOSEVELT COUNTY, MONTANA



Grade Elevation at well is 2096.

Form 9-331 Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

PFCN DI

# UNITED STATES

UNITED STATES	5. LEASE FT. PECK AL.
DEPARTMENT OF THE INTERIOR	14-20-0256-5439
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	Austin R. Buckles
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill or the period a different reservoir. Use Form 9-331-C for such proposals	N/A
	8. FARM OR LEASE NAME
1. oil Bas Other IVL 13 1981	Buckles "B"
well ding	9. WELL NO.
	#1
Texas Oil & Gas Corp.	10. FIELD OR WILDCAT NAME
3. DDRESS OF OPERATOR	East Poplar Field
Suite 300, 2705 Montana Ave., Billings, MT 5910	ETT. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	Section 22-T18N-R51E
AT SURFACE: 660' FNL, 1980' FEL.	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL:	Roosevelt Montana
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE.	
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	2106' GR
TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
including estimated date of starting any proposed work. If well is di measured and true vertical depths for all markers and zones pertinen  The following change is made in the subsurface packages	irectionally drilled, give subsurface locations and it to this work.)*
-thos it b puotago	
9. ABNORMAL CONDITIONS:	,
B. Trace amounts of H <sub>2</sub> S gas may be encounted the River Formation oil. In the ever are encountered, an H <sub>2</sub> S safety program, ands, will be implemented. The program as signs, use of respirators, proper detection.	nt hazardous concerntrations consistent with industry stand- would include such features
•	
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
SIGNED Galles Curles on TITLE Project Engin	neer DATE July 9, 1981
MA (This space for Federal or State offi	ERVISOBATE 7/20/8/

NOTICE THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD. (SUBMIT IN QUADRUPLICATE)

BOARD OF OIL AND GAS CONSERVATION JUL 1981 OF THE STATE OF MONTANAL & CAS COMME STATE OF WALL STATE O

MAC 36-3.18(10)-S18030 MAC 36-3.18(10)-S18140 MAC 36-3.18(10)-S18170

MAC 36-3.18(10)-S18020

BILLINGS. SUNDRY NOTICES AND REPORT

XX	Subsequent Report of Water Shut-off
	Subsequent Report of Shooting, Acidizing, Cementing
	Subsequent Report of Altering Casing
ļ	Subsequent Report of Redrilling or Repair
	Subsequent Report of Abandonment AFCENED 10 2
	Supplementary Well History
ļ	Report of Fracturing CHECK NO. 1 NO.
	Chd 10-1
Mark Na	ature of Report, Notice, or Other Data

Following is a notice of intention to do work report of work done owned on land . described as follows: leased LEASE Buckles !!R!!

	MONTANA		Rooseyel	t .		E, Poplar
	(State)			(County)		(Field)
37.13 N.	1	CNWNE Sec.	22 .	T28N	R51E	МРМ

(Meridian) (Township) (Range) line and ... 1980 line of Sec....22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is .....

READ CAREFULLY

### DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK RESULT

Cores Required if Taken NO drill cutting samples required

- Set 8 5/8", 24#, K-55 casifig and cement to Drill 12 1/4" hole to + 1200". surface,
- 2. Drill 7 7/8" hole to + 6000". Log, evaluate, and if warranted, set 5 1/2" 15.5# & 17#, K-55 casing at + 6000 and cement to above the Dakota formation in one stage,
- 3. Perforate Mission Canyon and complete as a single oil well. If necessary. stimulate with 500 gallons 15% HCL acid.

FILING WITH THE COMMISSION ALL LOGS. REPORTS, SURVEYS. AND ANALYSES MADE OR RUN IS REQUIRED IN ACCORDANCE WITH RULE NO. 230.

SALTWATER PITS SHALL BE IMPERM TABLE

Approved subject to conditions on reverse of form

JUL 1 6 1981

ORIGINAL SIGNED BY

By CHARLES G. MAIO, Petroleum Geologist

District Office Agent

Title

Company Texas Oil & Gas Corp

Drilling Engineer 2705 Montana Ave. Suite 300

Address Billings, Montana 59101

BOARD USE ONLY API WELL NUMBER



Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM APPROVAL IF WELL NOT SPUDDED OR EXTENSION REQUES.

OVER

FT PECK AL.

14-20-0256-5439

5. LEASE

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	Austin R. Buckles
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)	
reservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME
1. oil X <del>X</del> gas	Buckles ''B''
well gas other	9. WELL NO.
2. NAME OF OPERATOR	#1
Texas Oil & Gas Corp.	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR 59102	Fast Poplar Field
Suite 300, 2705 Montana Ave., Billings, MT 4. LOCATION OF WELL (REPORT LOCATION CLEARLY, See space 17	,11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
below.)	Section 22-T18N-R51E
AT SURFACE: 660' FNL. 1980' FEL	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL:	Roosevelt Montana
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
	2106' GL, 2118' KB
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	·
FRACTURE TREAT US SHOOT OR ACIDIZE CONTROL CON	
REPAIR WELL	(NOTE: Report results of multiple completion or zone
PULL OR ALTER CASING	change on Form 9-330.)
MULTIPLE COMPLETE	
CHANGE ZONES	
ABANDON Setting surface casing xx	•
(other)	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stat including estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertiner	irectionally drilled, give subsurface locations and
Drilled 12 1/4" hole to 1206' KB. Ran 26 jts 8 set @ 1146', with Lynes ECP packer @ 684'. Cemer 'G' and set packer.	5/8", 24#, K-55, ST&C casing, nted to surface.w/760 sx Class
	· ·
•	
•	
·	
	•
<b>.</b>	
Subsurface Salety Valve: Manu. and Type	Set @ Ft.
18. Thereby certify that the jorgoing is true and correct	
	. A
SIGNED LEO A. Heath	neer DATE August 14, 1981
(This space for Federal or State of	lice use)
, , , , , , , , , , , , , , , , , , , ,	
/// // V	DATE
CONDITIONS OF APPROVAL, IF ANY:	MAR02-018
	NIALION OF

# TEXAS OIL & GAS CORP.

Form Approved. Budget Bureau No. 42-R1424

UNITED STATES	BILLINGS	DI214IPI
DEPARTMENT OF THE INT	TERIOR SEP 4	1981

DRITED STATES	5. LEASE FI PECK AL
DEPARTMENT OF THE INTERIOR	14-20-0256-5439
GEOLOGICAL SURVEYSEP 4 1981	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Austin R. Buckles
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir, Use Form 9-331-C for such proposals.)	7. UNIT AGREEMENT NAME N/A
1 0/1 035:	8. FARM OR LEASE NAME Buckles' 'B''
vell well other	9. WELL NO.
2./NAME OF OPERATOR /Texas Oil & Gas Corp.	#1 10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR 59101	East Poplar Field
2705 Montana Avenue, Ste. 300, Billings, MT 4. LOCATION OF WELL (REPORT LOCATION CLEARLY, See space 17	.11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
below.) 660' FNL, 1980' FEL	Sec. 22-T18N-R51E
AT SURFACE:	12. COUNTY OR PARISH 13. STATE
AT TOTAL DEPTH:	Roosevelt Montana
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE.	14. Z-72-18-51
REPORT, OR OTHER DAȚA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO:  SUBSEQUENT REPORT OF:  TES: WATER SHUT-OFF  FRACTURE TREAT  SHOOT OR ACIDIZE  REPAIR WELL  PULL OR ALTER CASING  MULTIPLE COMPLETE  CHANGE ZONES  ABANDON*  (other) Setting production casing XX	Roosevelt Montana  14. ZAPI NO. 2-7.2-18-51  15. ELEVATIONS (SHOW DF. KDB. AND WD)  2106' GL, 2118' KB  (S8)  WORNOTE: Report results of multiple completion or zone change on Form 9-330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinent.)	irectionally drilled, give subsurface locations and
Drilled 7 7/8" hole to 5913'. Ran DLL-MSF log measurements) and CNL-FDC Log from 5905' - 4600 10.5# & 11.6#, K-55, ST&C casing at 5913' with stage cementing collar at 5398' Gemented with cement and 225 class "G" cement in two stages.	)'. Ran and set 141 jts 4 1/2" float collar at 5864' and 1 485 sacks 65/35 pozmix
-	

Subsurface Salety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
SIGNED A. J. Kagie TITLE Drilling Engineer DATE	August 24, 1981
APPROVED BY APPROVAL IF ANY:  (This space for Federal or State office use)  ACTING DISTRICT SUPERVISOR DA	TE 9/3/81

7/8"

<u>5½"</u>

15\_5#. &

### (Other instruction reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY 14-20-0256-5439 6. IF INDIAN, ALLOTTED OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Austin R Buckles 10. TYPE OF WORK 7. UNIT ACREEMENT NAME DRILL X DEEPEN [ PLUG BACK b. TIPE OF WELL N/A SINGLE X MULTIPLE S. DARM OR LEASE NAME WELL X CAS WELL OTHER 2. NAME OF OPERATO "B" Buckles WELL NO. Mexas Oil & Gas Corp u. S. Geological Survey ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT Suite 300, 2705 Montana Avenue, Billings, Montana 59102 | VED East Poplar Field 11. SEC., T., B., M., OR BLE. ... AND SURVEY OB AREA 660' FNL, 1980' FEL JUN 22 1981 At proposed prod. zone Billings, Montana Section 22-T28N-R51E 14. DIST 3R | 13. STATE Reserve pit will be lined. Apı . Montan<u>a</u> In case of dry hole, all restoration will be completed within 15. 019 LOC 60 days. In case of production, all disturbed areas not needed for prod-(41 13. DIS uction will be restored within 60 days. OR / Topsoil will be piled separately and not used for other purposes. WORE WILL START" 21. ELEV Access road will be from the south and joining existing road at 1981 210 A-1 site. 23. Archealogical clearance is not needed in this area. SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CENERT 123/" 8 5/8" 24# New 1200' <u>Circulate</u>

1.0003

700 sacks

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If Bronosni is to deepen or 200 pre 23

ie. If proposal is to drill or deepen directionally, give periorenter program. If any.	linent data on subsurface locations and r	measured and true vertical depths. Gire blowout
ROD Becker	TITLE Project Manager	DATE 6 22-81
(This space for Federal or State office use)		
APPROVED BY APPROVAL, IF ANY: SEE ATTACHED	ACTING DISTRICT SUPER	VISOR DATE 7/3/8/  ANY FLARING OR VENTING OF GAS SUBJECT TO NTL 4-A

DATED 1/1/30

# CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company	Well No.
Location	Lease No.

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

- 1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
- 2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.
- 3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended for more than 30 days, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Engineer must be notified at least 48 hours in advance of the plugging of the well, in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a

- 6. You or your authorized representative should inspect the abandoned location prior to notification to this office by form 9-331 that it is ready for inspection, and note especially:
  - (a) That the regulation dry-hole marker bears the correct legend as required in item 3.
  - (b) That rathole and mousehole are filled, not just bridged, and pits are filled and 'leveled.
  - (c) That all material and junk are gone. This includes deadmen protruding above the level ground surface.
  - (d) That reseeding or other required restoration work has been completed.
- 7. The U.S. Geological Survey district office address is:

Conservation Division, P.O. Box 2550, Billings,	MT 59103
Dist. Engr. Thomas P. Richmond Asst. Engr.	Phone <u>657-6367</u> Home Phone <u>656-0357</u> Home Phone
8. The BLM contact man is:  Phone (home)  Phone (office)	

	·
	The U. S. Geological Survey District office address and contacts are:
	Address: Conservation Division, P.O. Box 2550, Billings, MT 59103  Office Phone: 657-6367  District Engineer Thomas P. Richmond Home Phone: 656-0357  Asst. Dist. Engineer Home Phone:
7.	SURFACE OPERATING STANDARDS
	Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil, and rehabilitation.
8.	If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed for prior approval of the District Engineer, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9.	Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Engineer's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10.	This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact the Surface Management Agency 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, future operations will require a new application be filed for approval.
11.	If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12.	

follow-up report on form 9-331 should be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the District Engineer within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Engineer's office on a frequency and form or method as may be acceptable to the District Engineer.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed in duplicate directly with the U. S. Geological Survey Area office, P. O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Engineer. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6 and prior approval by the District Engineer.

- 5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
- 6. Significant surface values (are) (are not) involved at this location. Accordingly, you (must) (need not) notify this office and the Surface Management Agency at least 24 hours prior to commencing field operations to allow this office and/or the Surface Management Agency office to have personnel present for consultation during the construction of roads and locations.

The Surface Management Agency contact	is:
Office Phone:,	Home Phone:
City:,	State:

MAR02-0191

# CONDITIONS OF APPROVAL FOR WELL ABANDONMENT

Company	Location	
	•	
Well No	Lease No	•

# A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

- 1. This office should be notified sufficiently in advance of actual plugging work so that a representative may have an opportunity to witness the operation.
- 2. Upon completion of approved plugging, erect the regulation marker in accordance with 30 CFR 221.22 and clean up the location. The marker should not be less than 4 inches in diameter and extend approximately 4 feet above general ground level. Heap up the dirt around the base of the marker about 18 inches to take care of any settling of the cellar. The top of the marker must be closed or capped. Pits must be fenced unless approved otherwise by the District Engineer.
- 3. The following minimum information shall be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch:
  - "Fed" or "Ind", as applicable. "Well number, location by ¼ ¼ section, township and range."
- 4. Within 15 days after well bore plugging operations are completed, form 9-331 (Subsequent Report of Abandonment) must be filed showing location of plugs, amount of cement in each, amount of casing left in hole, and status of surface restoration. If a temporary delay in removal of equipment or surface cleanup is deemed necessary and acceptable to this office, so note on this report and notify this office when such work has been completed to your satisfaction. This final abandonment report will not be approved until a physical inspection by this office and the surface -management agency finds the well site in satisfactory condition.
- 5. If not previously filed, submit in duplicate Well Completion or Recompletion Report and Log (form 9-330), well history, electric logs, and other surveys, and if taken, core analysis and water analysis. These reports must also be filed within 15 days after completion of plugging operations.

JUN 22 1981

Billings, Montana

# 9-331 C ADDENDUM Buckles "B" #1 Section 22-T28N-R51E Roosevelt County, Montana

- 1. SURFACE FORMATION: Bear Paw
- 2. ESTIMATED FORMATION TOPS:

Judith River	730'	Tyler	48801
Eagle	1180'	Otter	50321
Muddy	2978'	Kibbey Sand	51941
Dakota	32361	Kibbey Lime	58281
Swift	3694'	Charles	54861
Bierdon	4142'	Charles A	55561
Piper	4801.'	Charles B	5674'
Amsden	4748'	Charles C	58261

3. ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:

Expected Oil and Gas Zones:

Judith River Muddy Dakota Kibby Charles Brackish Water Salt Water Salt Water Salt Water Oil

arles (

- 4. CASING PROGRAM AS PER FORM 9-331 C.
- 5. PRESSURE CONTROL EQUIPMENT:
  - A. After surface casing is set, a standard two-preventer system will be utilized.
  - B. The BOP equipment will be pressure-tested to 1,500 psi before drilling surface pipe cement, and will be tested for operation daily and during trips.
  - C. A diagram of the proposed installation. See Exhibit 1.
- 6. MUD PROGRAM;

0' - 600' Water 600' - 4000' Salt Water 4000' - TD : Saturated Salt Gel

- 7. AUXILIARY EQUIPMENT:
  - A. A kelly cock will be kept in the string at all times.
  - B. A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string, as necessary.

C. A gas-detecting device hot wire will be used from 3,000' to TD.

JUN 22 1981 Billings, Montana

D. A desander and/or desilter will be utilized as required.

\_ \_

- 8. CORING, LOGGING, TESTING PROGRAM:
  - A. No coring is anticipated.
  - B. Possible DST in the Charles C.
  - C. Dual laterolog-base surface casing to T.D.
  - D. FDC-CNL-GR-COL Tyler formation to T.D.
- 9. ABNORMAL CONDITIONS:
  - A. No abnormal pressures or temperatures are expected.
  - B. No hazardous gases such as H<sub>2</sub>S are expected.
  - C. Hole sloughing and washouts may be experienced in salt sections below 4,000'. Appropriate control measures will be exercised.
- 10. ANTICIPATED STARTING DATES:

Start location construction

Spud

Complete Drilling

Completed, ready for production

July 10, 1981

July 15, 1981

August 5, 1981

September 15, 1981

11. Productive zones will be perforated, tested and treated as necessary. Gas will be flared during testing. Produced water will be contained in the drilling reserve pit. The extent of treatment of a zone (acidizing and/or fracing) can only be determined after the zone has been tested. A completion program will be furnished after drilling and logging.



RECEIVED N JUN 22 1981 R51E Billings, Montana 26421.0 6601 2541.8 28N GR. EL. 2106 Scale ... |" = 1000'

Powers Elevation of Denver, Colorado
has in accordance with a request from Charlie Curlee
for Dexas Oil 1 Gas Corp.
determined the location of Buckles B/1
to be 660 fn & 1980 fc . Section 22 Township 28M
Range 668 of the Montana Principal Meridian

Roosevelt County, .ontana

I hereby certify that this plat is an accurate representation of a correct survey showing the location of Breizles 14/1

MAR02-0195

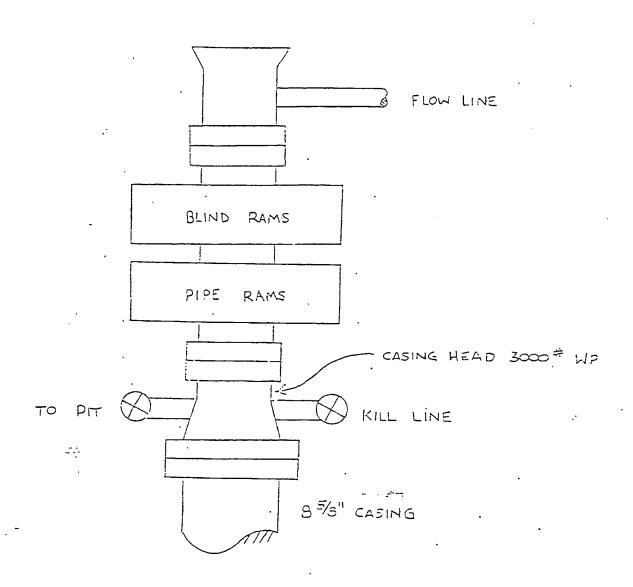
U. S. Geologicul Survey

Date		 <u> </u>	No.21 MAR-	
	Licensed		NO.2 MAR-	19

State of Confirma

Exhibit 2 Survey Plat

JUN 22 1981 Billings, Montana



BLOWOUT PREVENTER SCHEMATIC
FOR MUD DRILLING

MAR02-0196

**MAR-196** 

Exhibit I Blowout Preventer

Billings, Montana

# TEXAS OIL & GAS CORP. MULTIPOINT SURFACE USE AND OPERATIONS PLAN

DATE: June 18, 1981

WELL NAME: Buckles "B" #1

LOCATION: 660' FNL, 1980' FEL, Section 22-T28N-R51E, Roosevelt Co., Montana

# I. EXISTING ROADS

- A. Proposed well site as staked. Refer to Exhibit 2. The well has been staked 660' FNL and 1980' FEL of Section 22-T28N-R51E.
- B. Route and distance from nearest town or locatable reference point to where proposed access route leaves main road: From Poplar, east on Highway 2 approximately 4.5 miles to Flaxville blacktop road. Turn north, proceed 4.0 miles to section road. Turn west, proceed 2.0 miles to section road. Turn north for I mile to an intersection. Turn right and proceed 0.62 miles to the proposed access road.
- C. Access route to location color coded in red and labeled. Refer to Exhibit 3.
- D. For development well, all existing roads within one mile color coded in yellow. Refer to Exhibit 4.
- E. Plans for improvement and maintenance of existing roads: The roads leading to the access road are well traveled. The road from Highway 2 is a blacktop county road. The section roads are graded, gravelled and well traveled. Only the access road will require any maintenance. During wet periods, some maintenance may be required to allow travel by drilling rigs and well service vehicles. During dry periods, wetting the access road may be required to control dust.

## 2. PLANNED ACCESS ROAD

Show all necessary roads to be constructed or reconstructed: An access road approximately 0.1 mile long will be constructed from the north section line of Section 22-T28N-R51E. The road will proceed due south to the drill site. The road will be 18-20 feet wide, with minimal grade. No drainages will be crossed. If the well is commercially productive, the road will be bar-ditched and crowned to facilitate drainage. See Exhibit 5.

# 3. LOCATION OF EXISTING WELLS

Exhibit 6 is a one-mile radius locating and identifying the following:

- A. Water Wells None
- B. Abandoned Wells Murphy Oil Unit #72, Sec. 22-T28N-R51E

C. Temporarily Abandoned Wells - None

JUN 22 1981

D. Disposal Wells - None

Billings, ivontana

- E. Drilling Wells None
- F. Producing Wells Mesa 1-22 Biere, Sec. 22-T28N-R51E

Murphy Oil Unit #22, Sec. 14-T28N-R51E Murphy Oil Unit #55, Sec. 23-T28N-R51E Murphy Oil Unit #32, Sec. 15-T28N-R51E TXO Buckles "A" #1, Sec. 22-T28N-R51E

- G. Shut-In Wells None
- H. Injection Wells Mesa, Sec. 22-T28N-R51E

TXO Buckles "A" #1 Injection Well, Sec. 22-T28N-R51E

I. Monitoring or Observation Wells for Other Reasons - None

# 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Exhibit 6 is a one-mile radius locating the following existing facilities owned by the lessee/operator:
  - 1. Tank Batteries Buckles "A" #1, Sec. 22-T28N-R51E
  - 2. Production Facilities Buckles "A" #1, Sec. 22-T28N-R51E
  - 3. Oil Gathering Lines None
  - 4. Gas Gathering Lines None
  - 5. Injection Lines None
  - 6. Disposal Lines None
- B. If new facilities are contemplated, in the event of production show:
  - 1. Proposed location and attendant lines in relation to the well pad. Refer to Exhibit 7.
  - 2. Dimensions of facilities. Refer to Exhibit 7.
  - 3. Construction methods and materials: Water production will be contained in a bar production pit according to NTL-2B specifications. A production unit will be set. All connection work will be done by an oilfield service company using standard oilfield materials.
  - 4. Protective devices and measures to protect livestock and wildlife: The water production pit will be fenced and flagged to protect animals.

# 5. LOCATION AND TYPE OF WATER SUPPLY

- A. Location and type of water supply: Water for drilling purposes will be purchased from a commercial water hauler and hauled from Plentywood, Montana.
- B. Method of transporting water: Water will be transported via truck over the access route described in Section 1B of the MSUOP. No new roads will be required.
- C. If water well is to be drilled, so state: No water well is contemplated.

JUN 22 1981

# 6. SOURCES OF CONSTRUCTION MATERIALS

Billings, Montana

- A. Show information either on map or by written description: It is not anticipated that any materials for construction will be required beyond materials from the minimal cut on the location.
- B. Identify if from Federal or Indian Land: The surface is owned by Austin R. Buckles.
- C. Describe where materials such as sand, gravel, stone and soil material are to be obtained and used: None to be transported.
- D. Show any needed access roads crossing Federal or Indian lands. Refer to Exhibit 5.

# 7. METHODS OF HANDLING WASTE DISPOSAL

- A. Cuttings will be separated by screen and gravity and contained in the reserve pit and subsequently covered when the pit is filled.
- B. Drilling fluids to be contained in the reserve pit and allowed to evaporate prior to filling.
- C. Produced fluids will be contained in the reserve pit and allowed to evaporate prior to filling.
- D. Sewage Portable toilet will be provided.
- E. Garbage will be placed in a trash pit, fenced and covered with a small mesh wire fence for burning and burial after completion of the well.
- F. Statement regarding proper cleanup when rig moves out. When the rig moves out, all trash and surface refuse will be disposed of by burial in the trash pit or by removal from the location. All pits will be filled after drying and all areas restored as under Item #10.

# 8. ANCILLARY FACILITIES

....

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods: None planned.

## WELL SITE LAYOUT ATTACHMENT AND PROPOSED RIG LAYOUT

- A. Cross-section and plan view of drill pad with cuts and fills: Refer to Exhibits 8 and 9.
- B. Location of mud tank, reserve pit, burn pit, trash pit, pipe racks and living facilities: Refer to Exhibit 10.
- C. Rig orientation, parking area: Refer to Exhibit 10.
- D. Statement regarding pit lining: The reserve pit will be lined with plastic for drilling operations.

JUN 22 1981

paotaom ,cymilig

# 10. PLANS FOR RESTORATION OR SURFACE

- A. Backfilling, levelling, contouring and waste disposal: The reserve pit will be backfilled after evaporation or removal of drilling fluids. After backfilling, the pit area will be levelled to the original contour. The mouse and rat holes will be filled. As per Item #7, trash will be burned and buried.
- B. Revegetation and rehabilitation: Upon backfilling of the reserve and mud pits, the disturbed area will be recontoured prior to seeding; previously stockpiled topsoil will be redistributed evenly.
- C. If any oil is on the pit, it will be removed or overhead flagging will be installed.
- D. Timetable for commencement and completion of rehabilitation operations: The entire pad area (if a dry hole) or disturbed areas not needed for production will be recontoured within 60 days, pending drying of reserve pit prior to backfilling. Depending upon weather for rapid seed germination and standing crop, restoration should be final one year after spud date.

# 11. OTHER INFORMATION

General description of:

- A. Topography, soil characteristics, geologic features, flora, fauna: The proposed well site is located in a relatively flat wheat field. The land slopes slightly to the west from the drill site, toward the Poplar River, approximately 2 miles west. The land is under cultivation but is currently fallow. A ridge 0.5 miles runs north-south and has an elevation of about 80-120 feet above the elevation of the well pad. Dominant fauna includes small mammals and birds. No endangered species are known to exist in the area.
- B. Other surface-use activities: The surface is privately owned by Austin R. Buckles; it is currently being farmed by the Buckles family. Texas Oil & Gas Corp. will execute a surface damage agreement\_with\_Mr. Buckles.
- C. Proximity of water, occupied dwellings, archeological, historical or cultural sites: The Poplar River is located approximately 2.0 miles west of the drill site; in addition, a number of intermittent streams exist east of the drill site. A ranch house is located approximately 1.0 mile southwest of the drill site. The Bureau of Indian Affairs has conducted an environmental survey of the area and has determined that since the drill site is located in an active agricultural area, that any archeological, historical, or cultural values would have been destroyed or disturbed. Therefore, an archeological survey will not be required.

# 12. LESSEE'S OR OPERATOR'S REPRESENTATIVES

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

U. S. Geological Survey
RECEIVED

Ronald Becker Leo Heath - 406/656-9917 - Residence Texas Oil & Gas Corp. 2705 Montana Ave., Suite 300 Billings, Montana 59101 406/248-4330 - Business

JUN 22 1981 Billings, Montana

# 13. CERTIFICATES

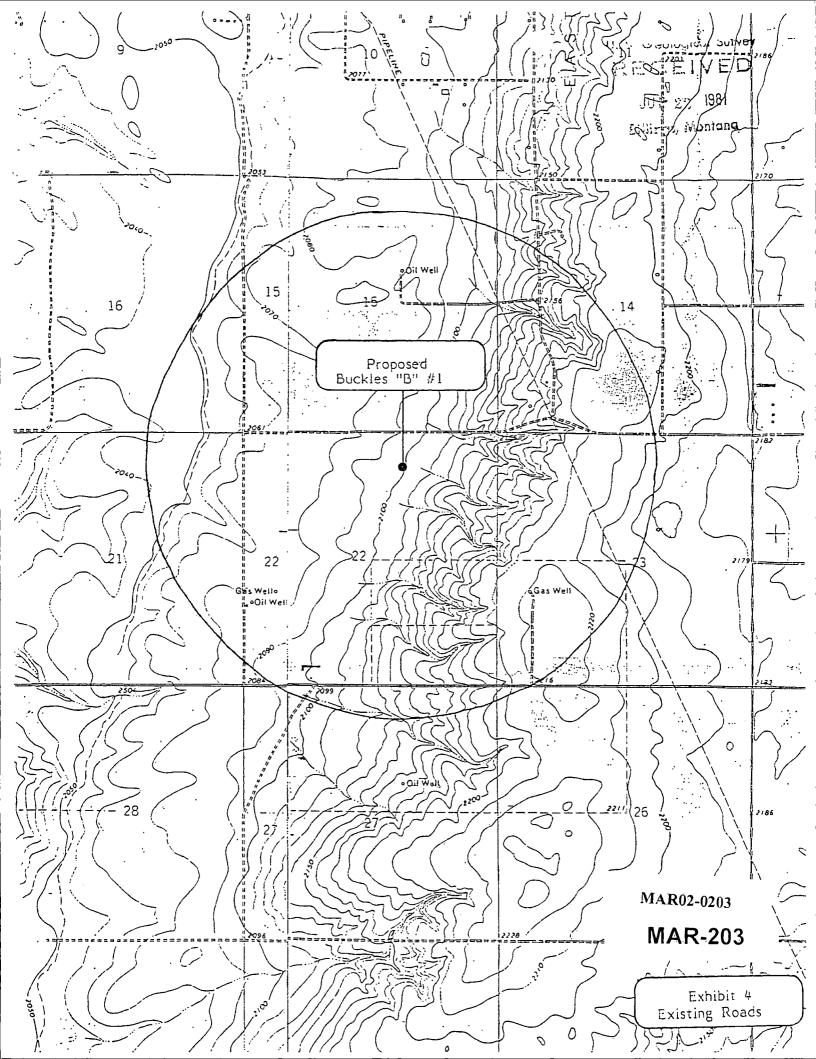
The following statement is to be included in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

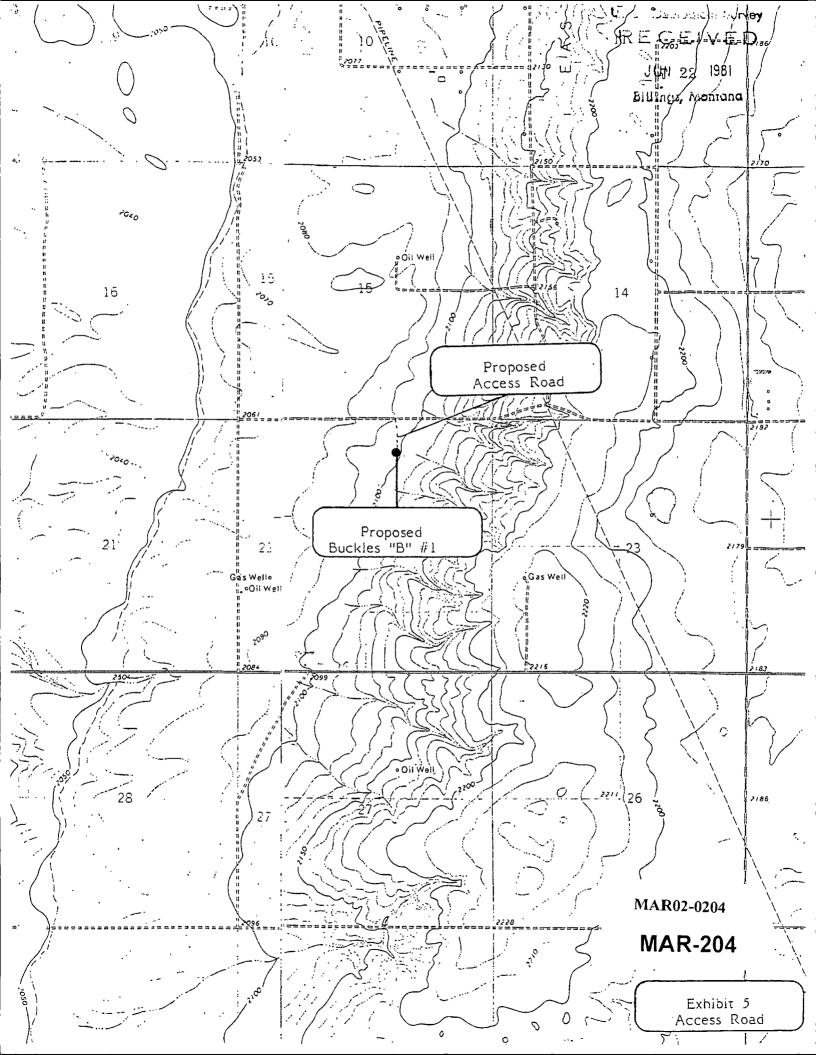
I hereby certify that I, or persons under by direct supervision have inspected the proposed drill site and access roads; that I am familiar with the conditions which presently exist; and that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Texas Oil & Gas Corp. and its contractors, subcontractors in conformity with this plan and the terms and conditions under which it is approved.

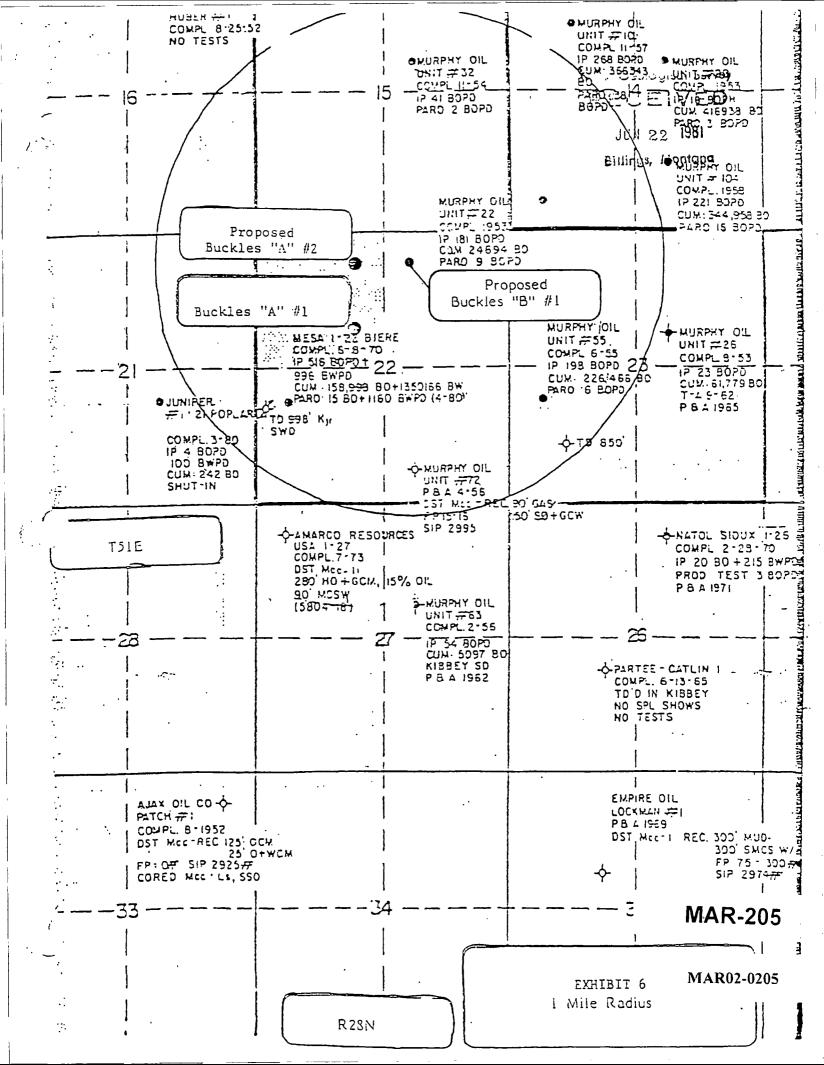
DATE: 6-22-81

Konald Becker by LAH
Ronald Becker
Project Manager



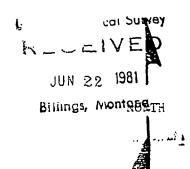


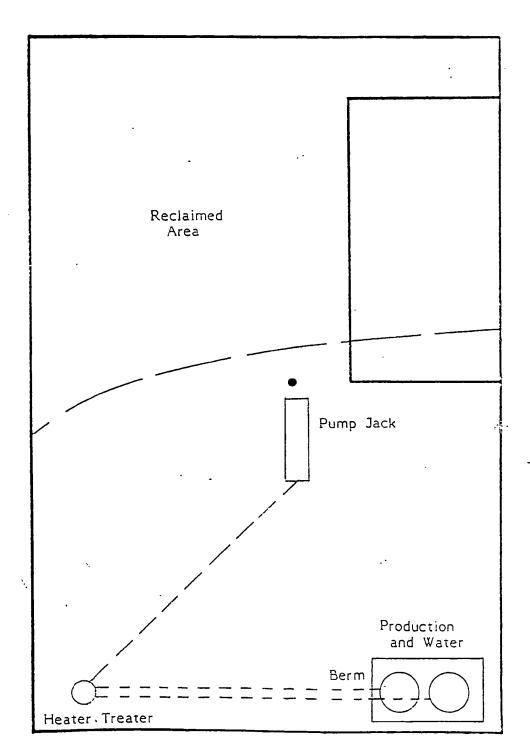




Texas Oil & Gas Corp.

Buckles "B" #1





Scale: 1" = 50'

MAR02-0206

**MAR-206** 

Exhibit 7
Production Facilities

 PIT & PAD LAYOU. J. Geological Survey

1" = 50!

RECEIVED

JUN 22 1981

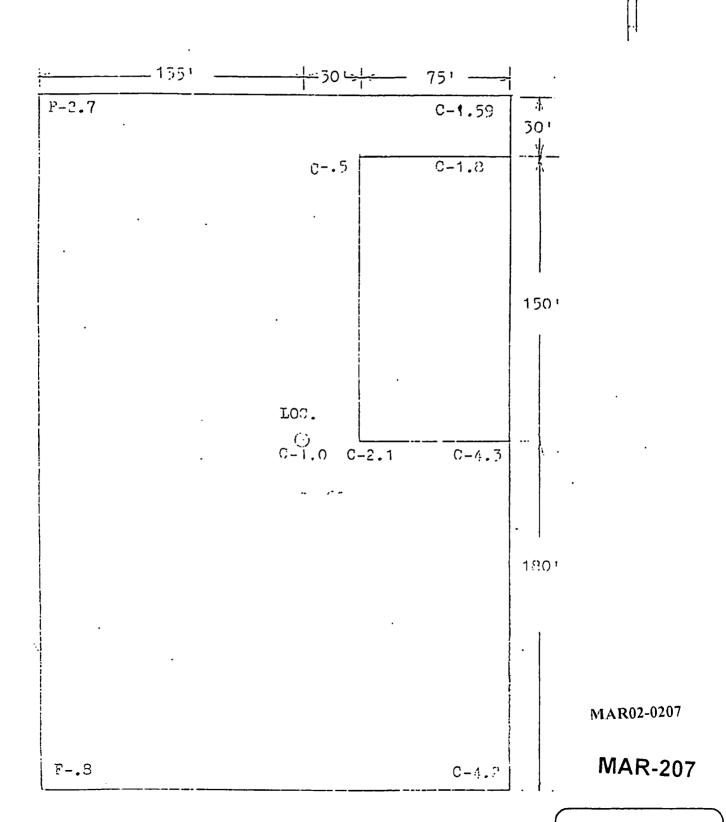


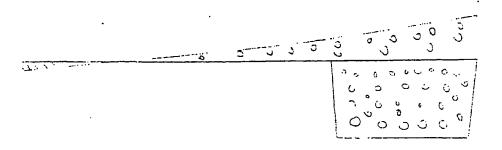
Exhibit 8 Cut & Fill

lexas U11 % Gas Corporation Buck - 8#1 Crossictions & Dirt Quantites U. S. Geological Survey RECEIVED

JUN 22 1981 Billings, Montana

Scale: 1' = 50' Horizontal 1' = 10' Vertical

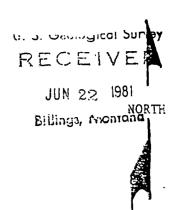
Cut 4169 cu. yds. Fill 1143 cu. yds. Pit Cut 3332 cu. yds

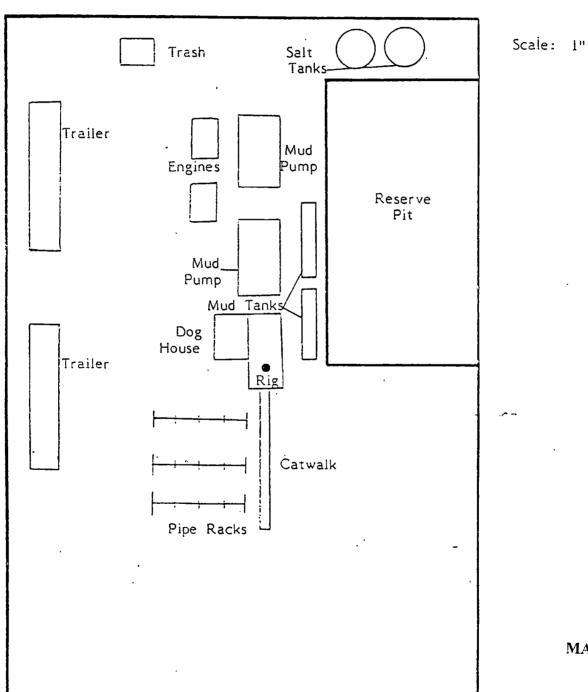


MAR02-0208

**MAR-208** 

Exhibit 9 Cross Section Texas Oil & Gas Corp. Buckles "B" #1





Scale: 1" = 50'

MAR02-0209

**MAR-209** 

Exhibit 10 Rig Layout

			0	į.
WELL SERVICING REPU	RT	'my'	AREA BILLINGS,	NT.
LEASE BUCKIES	WE	-	EXAS OIL & GAS COR	
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V. 100 See				
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TBG. SUBS	-			
TBG. ANCHOR MAKE & DESC.	1.1'			
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PERF. SUB		OR SLEEVE		
MUD ANCHOR OR (TAIL PIPE) / J PACKER TYPE BASIN MODEL	T. 31.1	5766	-72-1	
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ESTIMATED COST OF JOB			\$	-
REMARKS			TA NA	2 220
			INIAI	R-230

REPORTED BY

## ASTRO-CHEM SERVICE

well file



Post Office Box 972
Williston, North Dakota 5880
Phone 17011 572-7355

September 22, 1981

TXO Production Corp. 2705 Montana Ave. Suite 300 Billings, MT. 59101 ATTN: Leo Heath

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

SEP 28 1981

Dear Sir:

The results of the analysis requested on your water sample received September 18, 1981, are as follows:

Sample	pH —	Specific Gravity  @ 77° F	Resistivity  @ 77° F	Chloride	Sodium Chloride *
Buckles B-1	6.3Î	1.040	0.01 ohm-meters	36 <b>,</b> 965	60,936

\* Calculated from the Chloride Value

These results were telephoned to your office September 21, 1981.

Thank you.

Sincerely,

Deborah A. Stevens Astro-Chem Lab.

DAS:jb M-81-5033

### INTERSTATE ENGINEERING, ""C

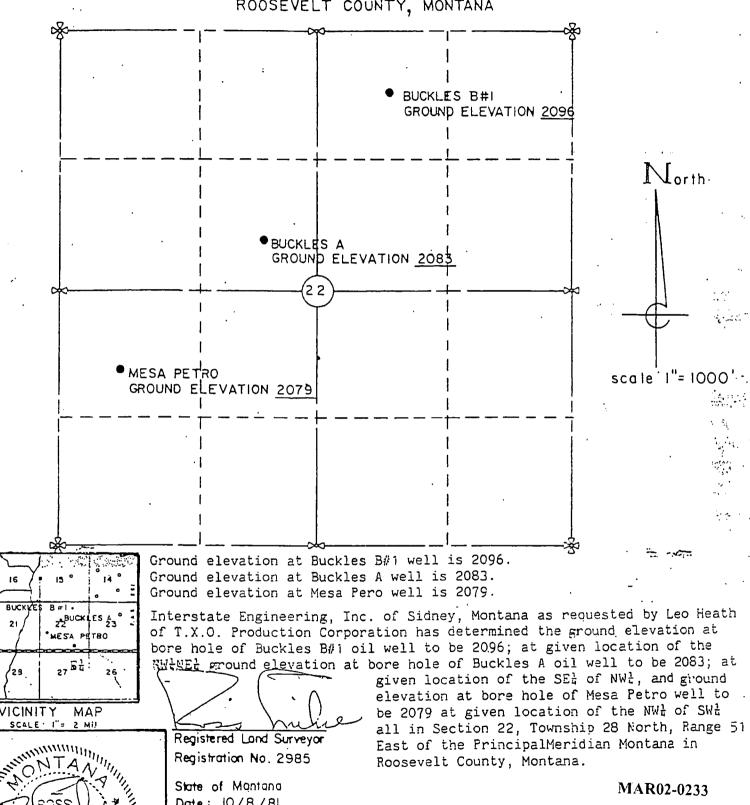
P. O. Box 648 SIDNEY, MONTANA 59270

## LETTER DF TRANSMITTAL

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	Billings	, MT 5	9101				
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COPY	TO .		·			/ .	

# T. X.O. PRODUCTION CORPORATION LOCATION AND ELEVATION PLAT

SECTION 22, T 28 N, R 51 E ROOSEVELT COUNTY, MONTANA



PASS ES LANGING PROSER & LANGING PROSERTER & L

Date : <u>10/8/81</u>

**MAR-233** 



INTERSTATE ENGINEERING, INC. BOX 648 SIDNEY, MONTANA 59270

MONTANA/NORTH DAKOTA PROJECT DRILLING REPORT Page 1 August 10, 1981

#### TXO DRILLING - MONTANA:

BUCKLES 'B' #1 (6000') Prop. #92287, Afe #81-1217 Roosevelt Co, MT/TXO 100% 22-T28N-R51E

- 8/10/81 MIRU Bird Rig #5
- 8/11/81 Rig shut down for routine maintenance. Will spud 8/12/81.
- 8/12/81 860' (860'). Drlg Surface. 10.1/41/NC. Spudded @ 10:00 pm 8/11/81. Drld 12½' hole to 860', TFB. Day 1. (CWC \$29,400).
- 8/13/81 1206' (346') WOC. Set pipe @ 1149' Ran 26 jts 8-5/8", 24# K-55 csg to 674', cem w/760 sx C1 G. Good circufation. Float held & pkr set. Day 2. (CWC \$59,863).
- 8/14/81 2460' (1256'). Drlg. Drill out csg shoe @ 11pm 8/13/81. Day 3. (CWC: \$90,583).
- 8/15/81 3974' (1514'). Drlg. 9.7/39/20.5 Day 4. (CWC \$125,583).
  - 8/16/81 4300' (326'). Drlg. 10.4/32/18.
    Day 5. (CWC \$137,383).
  - 8/17/81 4680' (380'). Drlg. 10.5/32/18. Day 6. (CWC \$147,363).
  - 8/18/81 4975' (295'). Drlg. Spearfish. 10.5/34/15. Day 7. (CWC \$155,343).
- 8/19/81 5200' (295'). Drlg. Kibbey. 10.4/32/17. Day 8. (CWC \$164,273).
- 8/20/81 5525' (325'). Drlg. Kibbey. 10.3/32/15. Day 8. (CWC \$221,275).
- 8/21/81 5810' (275'). Drlg. Charles ''B''. 10.5/35/11. Day 8. (CWC \$185,707).
- 8/22/81 5913' (103'). C&C. Charles ''C''.
  10.6/36/10. Lost circ @ 5884'. Lost approx 300 bbls. Regained circ. Drld to 5920'. Lost another 70 bbls mud. Day 9. (CWC \$190,087).

#### TXO DRILLING - MONTANA:

BUCKLES "B" #	1 (6000')
Prop. #92287,	AFE #81-1217
Roosevelt Co,	
22-T28N-R51E,	

8/23/81 5913' (0'). TOOH. Charles ''C''.

C&C 2½ hrs. TOOH. Ran DLL-MSFL from 5905-1178' & FDC-CNL from 5905-5700'.

TIH. C&C. TOOH. Day 10.

(CWC \$222,345).

8/24/81 5913' (0'). RD RT. Charles "C".

Ran 141 jts 4½" 10.5# & 11.6# csg.

Set @ 5913' w/FC @ 5863 & DV @ 5398',

Cmt 1st stage w/100 sxs Class "G".

Cmt 2nd stage w/485 sxs 65/35 poz.

Tailed in w/125 sxs Class "G". Had good circ thruout. BP @ 1:30 pm

8/23/81. Waited 12 hrs. Set slips @ 6 pm 8/24/81 & RR @ 8 am 8/24/81.

Day 11. (CWC \$292,377

#### COMPLETION:

8/25/81 WOCR. (CWC \$292,377).

8/26/81 WOCR. (CWC \$292,377).

8/27/81 WOCR. (CWC \$292,377).

8/28/81 WOCR. (CWC \$292,377)..

#### TXO COMPLETION:

8/29/81 WOCR.

8/30/81 TIH w/bit & scrpr. (\$330,505):

8/31/81 SDFWE. (\$330,505).

#### TXO COMPLETION:

BUCKLES "B" #1 (6000') Prop. #92287, AFE #81-1217 Roosevelt Co, MT/TXO 100% 22-T28N-R51E 9/1/81 Drlg out cem. Tagged cmt @ 5115', drld 250' cem. Drld thru DV tool. (CWC \$334,305).

9/2/81 5835'. TIH. Drld out FC & cmt to 5835'. TOH. Ran GR-CCL log. (CWC \$341,381).

#### TXO COMPLETION:

BUCKLES ''B'' #1 (6000') Prop. #92287, AFE #81-1217 Roosevelt Co, MT/TXO 100% 22-T28N-R51E, NL Well Svc

- 9/3/81 Circ pkr fluid, TOOH, PU Vann 3-5/8" perf gun and Baker model "R" pkr on 188 jts 2-3/8" tbg. Ran in hole w/tools & ran GR-CCL log to correlate setting depth. Set pkr @ 5745' w/18,00 compr. Instld wellhead. Dropp firing bar to perf csg w/Vann gun @ 5806-08' w/4 JSPF. No flow into well. Fished firing bar w/WL & released Vann gun. Btm OE tailpipe @ 5788', Baker profile SN @ 5711'. SDFN. (CWC \$358,190).
  - 9/4/81 RU Western & acidized perfs w/200 gal 15% spearhead acid, BDP=3100#, broke to 1800#, dec rate to 1/2 BPM @ 500#, ISIP= 300#, 27 BLTR, flowed acid wtr to pit, turned flow to test ta flowing 1/2" stream on 10/64" ch @ 225# FTP. Left flowing overnight. (CWC \$246,918).
  - 9/5/81 Ck plugged. SITP = 500 psi, cleaned out ck, flowing @ 375-400 psi w/12/64" ck, trace oil w/heavy emulsion in wtr. Left flowing overnight. (CWC: \$246,918).
  - 9/6/81 Ck plugged. Shut well in.
    Fluid rec in 2 days intermitter
    flowing = 7 BO & 18 BW.
    (CWC: \$246,918).
  - 9/7/81 SI. (CMC: \$246,918).
  - 9/8/81 SI. (CWC: \$246,918).
  - 9/9/81 Opened to flow @ 3:00 p.m.
    9-8-81, initial flow temp. =
    67°F. Flowed 1½ hrs to tank,
    flow temp increased to 80°F,
    rec 25 BF @ 210 psi FTP on
    19/64" ck. Continue to flow
    overnight. (CWC: \$246,918).

BUCKLES 'B' #1 (6000') Prop. #92287, AFE #81-1217 Roosevelt Co, MT/TXO 100%. 22-T28N-R51E, NL Well Svc

- 9/10/81 Flowed 18 BO & 242 BW in 15 hrs on 19/64" ck @ 350 psi FTP, wellhead temp = 110°F, 10 min SITP = 600 psi, opened on 12/64" ck @ 425 psi FTP, wellhead temp = 113°F, continue flowing. (CWC: \$246,918).
- 9/11/81 Flowed 7 BO & 210 BW in 24 hrs. on 12/64" ck w/425 psi FTP, flowing wellhead temp dec to 95°F. Water analysis indicates channeling. (CWC: \$246,918).
- 9/12/81 RU C.A. White Wireline & set a plug in the "F" nipple @ 5710'. RU NL Well. Syc. Release pkr & pull up to 3800' w/2 3/8" tbg. Retrieved wireline plug. Opened well to flow on 12/64" ck. SDON. (CWC: \$250,773)
- 9/13/81 WHP 500 psi. Ck was plugged off. Cleaned ck & opened well to tank on 12/64" ck. Flowed well l½ hrs RU Gearhart & ran diff. temp logs. RIJ Halliburton & pumped 10 bbls fresh wtr, 20 bbls Tem-block 50 & 10 bbls fresh wtr. Displaced w/heavy salt wtr. Initial pump in pressure 1 BPM @ 3000#. Displaced @ 2½ BPM @ 1000#. Circ hole w/heavy salt wtr. SDFWE. (CWC: \$260,373)
- 9/14/81 Well SI for Sunday. Prep to TOOH w/tbg. (CWC: \$260,373).
- 9/15/81 SITP = 50 psi, pulled tbg & pkr from 3800' to 800' with well flowing. SD to set WL tbg plug. SITP inc. from 100 psi to 220 psi in 2½ hrs. Set tbg plug in "F" nipple. Ran tbg & pkr to 4280'. Prep to circ salt wtr. to kill well. (CWC: \$264,348).

BUCKLES 'B' #1 (6000') Prop. #92287, AFE #81-1217 Roosevelt Co, MT/TXO 100% 22-T28N-R51E, NL Well Svc

- 9/16/81 SITP = 75 psi, pulled tbg & pkr. TIH w/overshot & rec Vann perf gun. Well flowing during trip @ est 150-180°F, oil cut inc from 1% to 10% @ end of day, no gauge on flow. SDFN. (CWC: \$267,448)
- 9/17/81 SITP 400 psi. Blew down pres. TOOH w/ tbg. RU Gearhart Wireline & ran a CBL-GR from 5830' to 4285' (cmt top). Log showed good bond 5000' TD, partial bond 4700' 5000' & poor bond above 4700'. TIH w/pkr, 2 3/8" tbg. Set tailpipe @ 5766' w/pkr @ 5735' w/10,000# compression. NU wellhead & opened well on 28/64" ck. (CWC: \$271,835)
- 9/18/81 Flowed well on 16/64" ck, FTP = 280 psi, tested 22 BFPH w/2% oil cut. (CWC: \$271,835).
- 9/19/81 Flowed 340 BF in 21 hrs, no oil, 13/16" ck, FTP 325 psi.
- 9/20/81 Flowed 450 BF w/10 BO in 24 hrs, 16/64" ck.
- 9/21/81 Flowed 460 BF w/11 BO in 24 hrs, 16/64" ck. (CWC: \$271,835).
- 9/22/81 RU NL Well Service, release & pull tbg & pkr, prepare to run cmt retainer. SDFN. (CWC: \$271,835)
- 9/23/81 SICP = 430 psi. Ran Howco cmt
  retainer on 2 3/8" tbg, set 6
  5645'. RU Halliburton, estab.
  rate of 3 BPM at 1000 psi.
  squeezed w/100 sx Cl "G" w/.8% FLA
  @ 2 BPM w/800 psi, did not squeeze,
  stung out of retainer, reverse
  circ tbg. SDFN.
  (CWC: \$281,081)
- 9/24/81 Stung into retainer, pressured to 1300 psi, held ok. TOOH w/tbg. TIH w/ 3-7/8" bit & scraper. (CWC: \$283,785)

BUCKLES 'B' #1 (6000') Prop. #92287, AFE #81-1217 Roosevelt Co, MT/TXO 100% 22-T28N-R51E, NL Well Svc.

- 9/25/81 Drld out cmt retainer @ 5645'. Hit top cmt @ 5650', drilling out cmt. (CWC: \$287,156).
- 9/26/81 Drld out cmt to PBTD 5840', pressured csg to 1600# & bled off immediately. Prep to squeeze again. (CWC: \$290,168).
- TIH w/Model ''R" pkr, set @ 9/27/81 5675' w/TP @ 5705'. RU Western. Squeezed w/50 sx Class ''G'' cmt w/0.2% WR-6 0.5% CF-6, pmpd @ 1/2 BPM & 2000 psi, dec to 3/4 BPM & 1500 psi, displaced to perfs & squeezed off w/2100 psi, attempted to reverse out cmt w/o success, pressured tbg to 4000 psi & held. Pulled pkr up to 1200', re-pressured tbg to 4000 psi & cleared cmt from tbg. TOOH. SDFN. (CWC: \$296,471)
- 9/28/81 SDFWE.
- 9/29/81 TIH w/bit & scraper. Drill out cmt stringers from 600' to 5700'. SDFN. (CWC: \$300,071)
- 9/30/81 Drilled out cmt to PBTD, perfs clear of cmt. Ran Mod "R" pkr to 5675', TP @ 5705'. Squeezed perfs w/35 sx Class "G" w/
  .4% WR-6, .6% CF-6 & .35% silica flour, pmpd in @ 1/2 BPM w/1500 psi, pmpd in stages and squeezed @ 2100 psi. Pulled pkr. SDFN. (CWC: \$303,633).
- 10/1/81 Drld out cmt from 5780' to 5820'.

  Pmpd into perfs @ 2 BPM w/1100
  psi. SDFN. (CWC: \$306,957)
- 10/2/81 Pulled bit & scraper. RU Gearhart.

  / Perfed @ 5802'-04' w/2 JSPF,
  total 9 shots w/3-1/8" HSC gun.
  Ran 2 3/8" thg w/Model "R"
  pkr set @ 5735' w/TP @ 5766'.

  Opened well to flow @ 3:30 pm.
  FTP = 260 psi w/12/64" ck.
  (CWC: \$307,875).

1 (6000') AFE #81-1217 MT/TXO 100% , NL Well Svc.

- 10/3/81 Ck plugged, TP = 390 psi.
  Cleaned out ck, left flowing
  on 12/64" w/FTP = 50 psi,
  flowed 30 bbls load wtr in
  8 hrs.
- 10/4/81 Flowed 25 BF w/no oil in 8 hrs, 12/64" ck, FTP 150 psi.
- 10/5/81 Flowed 25 BF in 22 hrs w/oil trace, 12/64" ck, FTP 210 psi. Prep to acidize. (CWC: \$310,875)
- Acd perfs w/200 gal 15% Spearhead acid, ATP = 800 psi @ 1 BPM, ISIP = 750 psi, flowed on open ck @ 120 psi, left flowing overnight on 12/64" ck. Ck plugged during night. SITP = 300 psi this AM, prep to acd w/diverting agent. (CWC: \$313,949)
  - RU Western, estab rate 3 BPM
    @ 1300 psi, pmpd 250 gal
    diverting agent of 40# gel
    w/300# benzoic acid flakes &
    9 ball sealers, followed w/500
    gal 15% Spearhead acid. BDP =
    2300 psi, ATP = 1500 psi @ 1.6
    BPM, ISIP = 650 psi. 73 BLWTR.
    Started flowing back on 12/64"
    ck w/290 psi FTP.
    (CWC: \$317,317)
    - Flowed 40 bbls LW in 3 hrs, opened to 16/64" ck, well died during night, SITP = Ø. Opened wellhead & blew out solid plug of diverting material, well flowing on 16/64" ck, FTP = 300 psi. (CWC: \$317,317).
    - 10/9/81 Flowed 216 BF in 18 hrs w/5% oil cut, FTP = 350 psi on 16/64" ck, fluid warming up. (CWC: \$317,317)

BUCKLES "B" #3	L (6000')
Prop. #92287,	AFE #81-1217
Roosevelt Co,	MT/TXO 100%
22-T28N-R51E,	NL Well Svc.

- 10/10/81 Flowed 20 BO, 410 BW in 24 hrs. FTP 310 psi, 16/64" ck.
- 10/11/81 Flowed 3 BO, 107 BW in 24 hrs. FTP 310 psi, 16/64" ck.
- 10/12/81 Flowed 5 BO, 350 BW in 24 hrs. FTP 310 psi, 16/64" ck. (CWC: \$317,317).
- 10/13/81 Flowed 5 BO & 445 BW in 24 hrs. FTP = 300#, 18/64" ck. (CWC: \$317,317)
- 10/14/81 Flowed 3 BO & 100 BW in 24 hrs on 12/64" ck. FTP = 405 psi.
- 10/15/81 Flowed 43 BF in 24 hrs w/trace oil, 12/64" ck. FTP = 380 psi. (CWC: \$317,317).
- 10/16/81 Flowed 30 BF in 24 hrs w/no oil, FTP = 380 psi, 12/64'' ck. (CWC: \$317,317).
- 10/17/81 Flowed 5 BO & 483 BW in 24 hrs on 22/64" ck w/FTP =. 210 psi.
- 10/18/81 Flowed 6 BO & 646 BW in 24 hrs on 23/64" ck w/FTP = 210 psi.
- 10/19/81 Flowed 6 BO & 622 BW in 24 hrs on 23/64" ck w/FTP = 200 psi.
- 10/20/81 SI for evaluation. DROP FROM REPORT UNTIL FURTHER ACTIVITY. (CWC: \$317,317)

DRILLING COMPLETIONS_X_ OPERATION	
10-17-81 Flowed 5 80+ 483 BW in 24 hrs on 22/64" ch w/	
10-18-81 Flored 6 BO J 646 BW in 24 hr on 23/64" ch w/	_
10-19-81 Flowed 6 80 + 622 BW in 24 hrs on 23/64" ch w/	_
10-20-81 Shut in for evaluation. Drop from report until further activity.	-
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DRI	LLING	_ COMPLE	TIONSO	PERATION.	÷
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FIP	·380 P	05!	12/64	CK,	·
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DRILLING_	COMPLETIONS_X_ OPERATIO	N5
report for 10-14-81:	Flowed 3 Bo + 100 BW FTP = 405 pai	in 24 hrs on 12/64 ch,
report for 10-15-81:	Henred 43 BF in mil, 12/64" ct.	- 24 hrs u/tone
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	Flou	red	5	<u> 80</u>	4	445	BW 64" ck	·
	<u> </u>	hrs		FTP	300 #	- 18/	54" CK	·
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DRILLINGOMPLETIONSOPERATION	;
aris Chin	310
Flower 430 BF in 24 hrs w/ 5% oil out, FTP=	300 ssi on 16/64%
10-11-81 11 f+ 1 BF TP 310	(sq 310
16/	64
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10-12-81 17ft 9= "B1 TP 3/0 1=290 0il cut.	1614,
1270 011 (41.	/64
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10/10/81 Flowed 2080, met 2080, 410	Bul in
24 hrs . FTP 310 psi, 16/64"ck.	
10/11/81 Flowed 3 80, 107 BW in 24 hrs. F	アア
310 psi 16/64"ck.	
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10/12/81 Flower SBO, 350 BW in 29 hrs. FT	1 3/0 ps)
1/69 62.	
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	DRILLING COMPLETIC	NS_X OPERATION	
	Flower 216 BF in 18 hra 16/64 ch, fluid warming up	w/ 5% oil cut,	FTP = 350 più on
	16/64 ch, fluid warming up		
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DRILLING	COMPLETIONS X OPERATION

ment. SIT	TP = 0	samed	wellhead	and blee	r sut a	olid she	a of de
Flowed 4 night; SIT material,	well flow	wwg m	16/64" ch	F7P= 3	300 sui	rec	BFin
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<i></i>	Rig up	Western,	estab.	rate 3 !	3PM @ 1:	300 più,	pumped	250 gal d	iverturo
	agent of	40# gel	W/ 300# 1	renzoic a	id flakes	+ 9 ball	seilers,	followed o	<i>ν</i> /
	500 90	l 15% fo	earhead as	il, BI	DP = 2300	pai, 1	ATP = 1500	pri C 1.6 E	Ри
	ISIP =	650 pci.	73 BL	WTR.	Startel 3	flowing 1	rack on !	2/64 ch w/	290 per
	FTP.				(	0		:	· · · · · · · · · · · · · · · · · · ·
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<i></i>	DRILLING COMPLETION	15_/\_ OPERATIONS	
	Didinal perfor w/ 200 gol 15 ISIP=750 psi, flowed on overnight on 12/64" ch., Chol this AM, prep to acidize w	5% Speanhead acid, ATP = 800 pri @ open ch @ 120 pri, left flowing he plugged during night. SITP = 3 1 diverting agent.	1 8P
	<del>-</del>	DWC = \$3074	
	CWC: \$313949		
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	ORILLING	DOMPLET	IONS,X OPE	ERATION :	<del></del>	
10-3-81	Choke flowing in	plugged on 12/64°	TP = 390 f W/ FTP =	si, Clean 50 pol,	ed out chobe flowed 30	, left bble Lood
 10-4-81	Flowed	258F u	y mood	in 8 hrs	12/64" ch	FTP 150 p4
 10-5-81	Flowel Propose t	25 BF in	- 22 hre Du	w/ oil spec	be , 17/64' cl	L, FTP 210 pc
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WELL IVAIVIL -----

DRILLING COMPLETIONS OPERATIONS	
Pulled bit & scraper, Rig up Genhart, perfel @ 5802-04' W/ 2 JSPF, total 9 state W/ 3/8" HSC gun, Ren 2 3/8" ttg W/ Model "R" phr set @ 5735', y/ Opened well to flow @ 3:30pm, FTP = 260 psi	
2 JSPF total 9 state w/ 3/00 HSC gun Ren 23/8" the w/ Model "R"	
plan set @ 5735'. 11 Opened well to flow @ 3:30pm, FTP = 260 pai	W/
12/64 h.	7
w/ TP & 5766'	
nig 12216	
nent 100	
perf 1726	
$\mathbf{I}$	
DWC = \$4242	
(CWC: \$307,875)	
standly rate \$1679	
restat 100	
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opening gange 9ª fluid	
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DRILLING CO	OMPLETIONS	X OPERATIO	N	-
Dilled out cont from @ 2 BPM W/ 1100 pir.	5780 to	5820'.	Pumpal	into serfs
@ 2 BPM W/ 1100 pin.	SOFN			, ,
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	•		rig \$3024	
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DRILLING COMPLETIONSOPERATION	
Drillel out cont to PBTD, parks clear of cont, Rose 5675', TP @ 5705', faveened perks w/ 35 5x ( .6 % CF-6 + 35 % silica flow, pumped in @ V2 BPM in stages and squeened @ 2100 pic. Pullel phr. 5	n Mod"R" plen to Lace "G" W .4% WR-6 W/1500 pei, pumpel DFN.
rent 100	
Augr 200 1 3562	
306 071 3 562 303 633	
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### DRILLING\_\_\_\_ COMPLETIONS\_X\_ OPERATIONS\_\_\_\_

SDFN.		Sturgers from 600' to 5700
	•	mg 3300
		rent, 100
1		DWC = \$ 3600
		JWC = 7 5600
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(cwc: 300,07	/ <u>)</u>	<del></del>
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DATE WELL MANIE BUCKET OF LIMION	<u>.</u>
DRILLING COMPLETIONS_X_ OPERATION	:
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	<b>A</b>
9-26-81 Dilled out cont to PBTD 5840', press 1600 # + blad off immediately, prep to s	unel ag to
1600 # + bled off immediately ones to s	queene again.
	22 × 2487
Λ	at 100
- 287 156	it 225
3 0 / 7	mfr. 200
$CWC: \frac{5-27-5-27}{9-290.148}$ DWC =	\$3012
290,168	
**************************************	,
9-27 81 TTH W/ Model "R" Aba 11th 5675' W/	TP @ 5705' Ris
9-27-81 TIH w/ Model "R" phr. set@ 5675' w/	1/ 027 WB-6
0.5% CF-6, sumpel @ 1/2 BPM + 2000 psi, lec	to 3/4 80m & 1500 mi
displaced to perfe + squeezed off w/ 2100 or	- Unan wind
reverse out comt w/o success, pressured to	4 7000 FT #
held, pulled plin up to 1200', re-necessured to	0 1000 per and
cleared cut from thy, TOOH, SDFN	-
	a \$3054
<i>N</i>	1
CWC \$ 296 471 Iw	2609
CUC 2/6, 9/1	
Au	
DWC Z	\$ 6303
9-28-81 SDFWE	· .
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	MAR-256 —
	MAR02-0256

DRILLING	COMPL	ETIONS2	C OPE	RATION
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out cut.	5645', hit tops cont @ 5650', drilling
	DINC = 13371
	nig \$3071
283,785	rentel 100
	sups. 200
287,156	super. 200 \$3371
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	DRILLING DOMPLETIO	NS_X_ OPERATIONS
Stung i	ito retainer, presoured	to 1300 psi, held OK, TOOH
TIH W/	31/8" but + scroper.	
		Dwc = *2,705
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·		My = 2324
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		100 - 100
·		yut. 80
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		2704.
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Čy	283,785	
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		MAR-258

DRILLING COMPLETIO	NSX_ OPERATION
SICP = 430 pri, Ran How	est cement retainer on 23/8° this, set @ established of 3 BPM @ 1000 pair, squeezel @ 12 BPM W/ 800 pair, did not squeeze
5645', Rig up Hellsburton,	established of 3 BPM @ 1000 psi squeezed
W 100 SX ( C "G" W/ .8% FLA	1 @ 12 BPM W/ 800 pai, did not squeeze
sting out of retainer, reverse cir	c the SDFN.
Ų	V
	)WC = 19246
	rig \$1664
(Ciwc: #281,081)	cement 5224
	plen.
	truck 290
	rent 50
	dupir 200
	7.428
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	Mon.
	Nig 1518
	nent 100
	ALFN 200
	× 1818
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У	MAR-259 —
	MAR02-0259

						RATIONS		
	Ria up	NL well	senrice,	release	+ pull	tto o phr	, Organe	to run
	cement or	etriner.	SDFN			, , , , , , , , , , , , , , , , , , ,		_
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DRILLING	COMPLET	TONS_X_	OPERATIONS_	
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	9-19-81	Flowed	l 34	O BF	in	21h	<u>۸</u> ,	no oil	, 13/	16°ch,	
		FTP 32								<u> </u>	
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	9-20-81	Flowed	450	BF .	10 /4	Bo	in	24 h	<u>~</u>	6/64" ch	
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	9-21-81	Flowed	460	3F W	1 11	<b>₽</b> 0	in	24/2	1	6/64" cl	_
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DRILLING COMPLETIONS, OPERATION						
Flowed well on w/ 2 1/2 % oil cn	16/64 h	FTP = 280 pi	, testeel 22 BFPH			
w/ 2 1/2 % oil cu	<u>t · </u>					
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			MAR-262			
			MAR02-0262 -			

SITP HOD DEL Blendown press. Took up the
R. H. Gearhart Wireline & ran a CBI-GR from 5830' to
4285' (cmt top), Log should good hand 5000'- T.D.
partial bond 4700'-5000 & poor bond
" Love 4700'. TIH wy 1jt 23/2" tailpyde,
Beker Model 'R-3" snal - rip pkr ljt 23/6"+b-,
1.87" J.D. "F" nipple 9 23/8" the Set to pipe
O 57 61 1 10 Km ( ) 57 35 E F F T T T T T T T T T T T T T T T T T
5705 pkr (2) 5>35 5 F nygle (2)
N. W. well head & opened well to the
W. M. Well nead & office well to the
tanks on 28/64"ck@ 8:00 pm. 9-16-81
Costs:
Ris 2102
Vindine 7585
Sugar 300
Rentoto 100
Baker Pkr 500
(CWC: 271,835)
1 CWC: 2/1, 835/
Tank Ghaze 4'2" @ \$:00 p.m. 9-16-81
RAA -
MAR-263

# DRILLING\_\_\_ COMPLETIONS\_X\_ OPERATION\_\_\_\_

SITP = 75 pai, pulled they +	pk. TIH w/ overshot & rec Van trip P est 150-180°F, oil cut i day, no gauge on flow, SDFN.	И
pert gun well flowing during	tris @ est 150-180°F, oil cut i	ñe_
from 1 % to 10 % at end of	day, no gauge on flow, SDFN.	
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÷	01a 2300	
10 Le	11-Pro Rental nental 600	
	Supr. 200	
	Dwc = \$310.0	
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17.WC: 261,798)		
(CWC: 267,448)		
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	MAR-264	_
	No. 100 c	_
	MAR02-0264	

DRILLING COMPLETIONS_K_OPERATION	
SITP = 50 poi, Pulled they & plus from 3800' to 800'  SD to set WL they plug, SITP inc from 100 poi to 22  Let they plug in F" nipple; Ran they & plus to 4/280',  salt with to kill well.	with well flowing or sai in 21/2 has
Duic= \$ 5	3975
et 2 we 200	Ö
rental 57	)
(CWC \$264, 348)	
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	MAR02-0265

	DRILLING	_ COMPLE	ETIONS_/C	DPERATION.	· ·		
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UAI,E / / / 19 / MYLLE INAME CARTER / UN CONTROL CONTROL
DRILLING COMPLETIONSOPERATION
Cleaned city
tenned in ell to tahk on 12/64" ck. Floring  well lahre R. M. Gear hart & ran to diff  tenne logs R. M. Hall hirton & pumped
well lahre K. M. Gear hart y can to dit
tenie logs R. H. Halliburton & pumped
10 hb/c Gresh with di hbils lem-blockgog
10 bble Fresh with & Displaced in
henry solt with  Initial pumpo in pressure 1 BPM@3000#.  Displaced@21/2 BPM@1000#. Circ
Initial punge in pressure 1 BPM (2) 3000#
))15placed (a) 2/2 BPM (a) 10/00 # (10c
hole un heavy salt into the SDFWF
Ken 2040 Sidne 200
P + 0 200
Rentala 200
Windling 3860
Rumaina 277D
CWC: \$ 260,373
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MAR-267
MAR02-0267
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DAIL 7-12	EX/ WELL NAME	DUCKIES V	UPERATUR	
	DRILLING	COMPLETIONS_	OPERATION	•
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K. W.	"="	hreldin	eline & set	A MET SECV
PULL UP to 3,80	- i/	p/e(a) 37	1016	Release pki
1000		' '	ied winsling	10 plus
Cyrene	d inell	to 5 10 1.01	on 12/65	1" CX/500
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		·	1d Inlin	1900
	<u> </u>	·	Rig	145.5
	····	·	Sugar	220
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DRILLING_ COMPLETIONS_X OPERATIO'  Flowed 7 80 + 210 8W in 24 live on 12/44 ch W/ 425 mi FTP,  flowing willbed temp for to 95°F. Note analysis indicates describing  MAR-269  MAR02-0269	DAT,	E 7-11						EKATUK	120	
MAR-269		•	DRILLIN	۱G	COMPLE	TIONS_X	OPERAT	10!		:
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——————————————————————————————————————	<del></del>	J.Coured	1 68 7 ·	10 Bu	o me la	24 Ms 1	76 /6"	4 CM W/	725 AN	$\frac{FTP}{1}$
——————————————————————————————————————		flouring	wellhead	Temp	der Ti	+ 95°F.	Water	analysis	Mecater	- channeline
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DRILLINGCOMPLETIONS_X OPERATION
DRIELING COMPLETIONS_X_ OPERATIONS
Fl. (18 8-1 21/2 81) 19/41" l. + 7501 500
Flowed 18 BD + 242 BW in 15 hrs on 19/64" che at 350pii FTP, wellheak temps = 110°F. 10 min SFTP = 600 pii, Opened on 12/64 "ch at 425 pii FTP, wellhead temps = 113°F, continue flowing.
at 425 pri FTP wellhard teme = 113°F, continue flowing.
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MAR-270
MAR02-0270 -

DATE 9-9-81 WELL NAME BUCKLES B +1 OPERATOR	TXO
DRILLING COMPLETIONS X OPERATION	•
Opened to flour @ 3:00 pm 9-8-81, initial of flowed 11/2 hrs to tank, flow temps increased 25 8F at 210 psi FTP on 19/64" ctr., continue	low temp = 67 of
flowed 1/2 his to land, flow temp increased	to 80°F, rec
20 8F at 210 per 1-17 on 17/64 ctc.; Continue	to flow overnight
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	MAR02-0271 —

DATE WELL NAME DUCKES & - OPERATOR 7	-xu-rc
DRILLING COMPLETIONS_X OPERATION	•
	•
9-5-81 Choke plugged, SITP = 500 psi, cleaned flowing at 375-400 psi w/ 12/64 ch, tro emulsion in water. Left flowing overnight	out choke.
flowing at 375-400 pi w/ 12/64 "ch, tre	ue oil w/ heavy
emulsion in water. Left flowing overnigh	to close stages
A CARLON STATE OF THE STATE OF	
9-6-81 Choke plugged, shut well in. Fluid rec in 2 days intermittent flowing =	
Fluid rec in 2 days internettent flowing =	= 7 Bo + 18 BW.
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9-7-81 SI	· · · · · · · · · · · · · · · · · · ·
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9-8-81 SI	•
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DRILLING	_ COMPLETIONS_	OPERATIO.	S
Oil Waits a ail	`	1 1-9	
RU Meren and aciding	ca perfo w/ de	00 gat 15 65 - x	ISIP = 300#, 27 BLTR tark, flowing 1/2"
trible la 1800, dec no	1 + + 0	10 500	ISIV = 300 " 27 KLTR
Thomas acid win to	pro turnin	flour in the	lare, flowing 1/2"
stram on 10/64" ch a	225 " FTP.	Left flower	g overnight.
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			DWC = 5705
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			acia 1660
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DRILLING (	COMPLETIONS	OPERATIONS
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Cook she bluich TOOH. Pie	k up Vann 35/8" perf gun and Baker model
"R" ster = 188 it 23/8" the Ran	in hole w'tools + nan GR-CCL log to
cornelate setting death. Let	An C 5745' w/ 18,000# compr. Installal
wellhead Danfood living bar	to perf cra w/ Vano gun @ 5806-08' w/
4 JSPF. Mer flow into well.	Fished fining bon w/ WL and released
Vann gum. Btm OE tailpup	è 0 5788', Bather profile SHC 5711'. SDFN
(See well file for bottom	ble assembly details.)
	DWC =
	. nig 2640
	per 54,24
	log4 4345
	wieline 1200
·	parkers 2500
	nental 500
	dup. 200
	£ 16,809
	CWC = \$358,190
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	MAR02-0274

DRILLING COMPL	ETIONS OI	PERATILNS		
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8-30-21=T I H w/ hil + p	maden.			
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8-31-81 = SDFWE				<del></del>
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	= 0	H tel	753	<del></del> _
		Wolferd	8,000	
		Pipe	26,000	
		Rostala	900	
		Souking	1,100	
		Ria .	1,000	
		3.Fa.	375	
		<u> </u>	738,128	:.
			·	. "44"
	CW	0 =	330,500	<u> </u>
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			RAA m. G.	
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		····		
			MAR02-0275	
			MARO	

			DATE	<u> </u>	9-2-8	1			
			DAY_	•		· ·.	·		
			OPE	ATOR_	TX	0 PG			•
			WE!	, R	uklis"	•			
						•			
	DEPTH.	583	5_ (	OPERATI	ONS REPORT	TIME	. 1 1 17	<del></del>	
		•		F8	EET DRILLED IN	V LAST TV	WENTY-FOUR H	IOURS.	
	FORMAT					• •			
MUD:	wr ·	·VIS	· wı		, FC;PF		SOLIDS	· C1 · P	V
					•	•		,,,,,,	<u> </u>
	YP	;GELS	; OIL	<del></del> ;	LCM,	<del></del>	•	•	
BIT	SERIAL	SIZE	MAKE	TYPE	JET SIZES	NEW/	FROM - TO	FEET .	HOURS
NO.	NO.		<del>                                     </del>			USED			
			-			:			
						<u> </u>			<u> </u>
REMA	uffi Z	Priller	ilto s	DEPTH C+ cmt	-! TOH.	RI MI W/		COSTS O O	
<u></u>	en C	<u> </u>		<del>****</del>			GGING		
			•		· · · · · · · · · · · · · · · · · · ·		ESTING		
	<del>`-</del> -	1	:			1	MENTING		
						1	ATERIALS (csg 8		
	·						Light y 1		76
						_		9	
								— MAF	R02-0276
						D/	AILY TOTAL 🛱 JMULATIVE 3	7076N	IAR-276

			DATE		13-1-6				
			DAY_		- <u> </u>				
			OPF	PATOR	TXOTO	_			
	•		W.C.	·A·O(\_	3 uchles	* 12 ° 11	. 1		
					,			n 0	<u>_</u>
	DEPTH.			OPERATI	ONS REPORT	TIME	Anda. out	_ Careen	w T
•		<del></del>		FE	ET DRILLED IN	LAST T	WENTY-FOUR HO	URS.	
	FORMAT	FION:	·						•
MUD:	\ <i>UT</i> •	· V10	. \4/1		EC . DL		SOLIDS;	CI . B	
MOD.								•	
	YP	;GELS	; OIL	<del></del> ;	LCM;	<del></del>		<del></del>	
BIT .	SERIAL	SIZE	MAKE .	TYPE	JET SIZES	NEW/	FROM - TO	T	Tugung 1
NO.	NO.	3126	IVANE	ITPE	JE1 312E3	USED	PROM - 10	FEET	HOURS
					<u> </u>			ļ	
<del></del>									:
		<u>.                                    </u>		<del></del>		<u> </u>			<u> </u>
WEIG	HT ON B	IT	_RPM	NO.	I PUMP PRESS	URE	.PUMP"X	."XSI	. ∴ PM *•;
				NO	2 PUMP PRESS	SURE	_PUMP" X	_"XSI	PM :
SURV	EYS: DE	EPTH A	NGLE	DEPTH	ANGLE		DAILY C	OSTS	
*						_ RI	G <u>330</u>	0	
DEMA	RKS: 7	ains	cent	פ 112. ממומ	llið -		JD		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ment	Dil	les +	Seuch.	1	ATER		· · ·
D	V to	Ê.			,	-	TS DGGING		•
	·.	<u> </u>		<del></del>		1	ESTING		
		<u> </u>			· · · · · · · · · · · · · · · · · · ·	İ	MENTING		·
<del></del>		·					ENTALS 3	_	
	<del></del>			<del></del>			ATERIALS (csg & w		
	<del> :</del>	-				_	Jugar	261	
<del></del>						-  -			
·					<del></del>	_		MAR02-	0277
<del></del>		····				-	AILY TOTAL \$		Л Р 277 <sup>:</sup>
			<del></del>			-   D/	JMULATIVE \$33	2,< 0억 W1. 시 국소 4	MN-2//
								1/000	

DAILY	DRILLING	REPORT
••		

			·. •	DAILY 	DRILLING	REPOR	<del>?T</del> ,			
•			DAT		8-24	-81				
					11					
			-		TXO					
					uckles		1			
	DEPTH_	<u>3<sup>-</sup>91</u> ,	3_ (	OPERATI	ONS REPORT	TIME_	$\mathcal{A}\mathcal{D}\mathcal{A}$	7 /	<del></del>	
•	•			F	EET DRILLED	IN LAST	TWENTY-FO	OUR HO	URS.	
	FORMATIO	ON:	Char	100	<u> </u>	· · · · · · · · · · · · · · · · · · ·			<del></del>	
MUD:	WT; V	′IS	; WL	<del></del> :	;FC;F	Ή	_; SOLIDS	;	CL; P	v
	YP;G	ELS.	; OIL	;	, LCM;					
		•			,	• '	•			•
BIT · NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NE\ USE		ТО	FEET	HOURS
. [	<u> </u>							•		<u> </u>
WEIG	HT ON BIT.		_RPM		I PUMP PRES			_"x		-M ·
			•	NO	2 PUMP PRES	SURE	PUMP	x	_ X Si	· .
SURV	EYS: DEP	THA	NGLE	DEPTH	ANGLE	<del>_</del>	<u>D</u> ,	AILY C	<u>OSTS</u>	*
		_					RIG		<del></del>	400
	141 : 23 4	1/2 " 10	0.5 # & 11.	B ± c 5	<u> </u>		MUD			· <del>····</del>
REMA	IRKS: Ra	<u> </u>	4 1 2	5.4%	11. /2 # N.	<u>-5</u> 5	WATER	· · · · · ·		
را ک	ξC-X	cd	ر- کہ ۔ بے کہ ۔ ر	- T d	Tr d'e		BITS	<del></del>		
<u> </u>	+@	591	3 4~	1 FC	Q 580	1 3 ·	LOGGING		MAR	02-0278
Ę	J D.	V. C	2 23	98'	Cmt	131	TESTINGCEMENTING		2	0757
FOCK	1 150	٧٦. (	5	1955	15" my	 	RENTALS			75
10	ツ D-1	<del>44</del>	0.80	$\frac{7}{2}$	-60,0	3%	MATERIALS	cking (csg@w	ከ)	·
. <u>D-</u>	13 <u>,                                    </u>	22 // S	> 1- 5 - <del>1</del>	<u>6. C</u>	$\frac{m+2^n}{\sqrt{-1}}$		5upv		-	200
3/436		1 + 6	<u>ار کی د</u>	<u>x z </u>	10x D-1	- E	C5 9	<del></del>	<u> </u>	3000
	2% [	ر لا د د	,	1 - 1 - 1	· ( )	つ・ ノ フ	_		MAR	R-278
		7 7 (	<u>n la</u>	Jed	in my					
12.	5 5X s	C Se	<u> </u>	11/2	in wy		DAILY TOTA	.L		0032

			i	DAILY	DRILLING	REPOR	<u>r</u>		
			DAT	<u>-</u>	8-23	-81			
			DAY	. ,		• •	•		
			·	·	. 7	· ·			
				RATOR_		* ~ (	· ;		
		59			uctle				
	DEPTH.			OPERATI	ONS REPORT	TIME	TOOK	<u>/</u>	
•		•	_				TWENTY-FOUR H		
	FORMAT		Cha	داود		· ·			
MUD:						•	; SOLIDS	;CL;PV.	
					, LCM;	•			
			,      .	<del></del> ,	,	,			
BIT . NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	. NEW/ USED	FROM - TO	FEET '	HOURS
_5								30	3
							· .		
			<u> </u>	<u> </u>			<u> </u>	·	
WEIGH	T ON BI	Τ	RPM		. I PUMP PRES		PUMP"X	"X SPM	
				ЙО	2 PUMP PRES	SURE	PUMP X	SPM	i '
SURV	EYS: DE	PTH /		DEPTH	ANGLE	<b>二</b> .	DAILY	COSTS	
	3	3/3	10			-    .			
							RIG		<u>4400</u>
( REMA	.RKS:	C \$ C	<u> 2 ½</u>	br	s. Too	Ly -	MUD WATER		<u> </u>
) <u>R</u> a	n D	1	MSFL		590 -	- 1	3ITS		<del>`</del> _
	78	4.			Fram	1 1	_OGGING		7865
			<u>O.</u>	///	· C & C	·	TESTING		
	-00 k	У·г			· .	—   (	CEMENTING		
							RENTALS		
<del></del>	•		·			i	MATERIALS (csg &	wh)	676
							s region		
					•	_ [	·	MAR02-0279	
<u></u>						_ {			
		•				<del></del>		MAR-279§	17 25E
						1 (	CUMULATIVE	2	~ 11 ~

			DAT	E	8-2	<u> </u>	31	·			
			DAY.		· · · · · ·	9					
			OPE	, RATOR_			$\wedge$				
			WEL	L/	Buck	/e r	'R'	<u>'</u>			
	חבטדט	59						C & C			
	טברות.	<del>- 3 - 1 -</del>									
	•					D IN	LAST T	WENTY-FOL	JR HOL	JRS.	
		_	Lhacl								•
MUD:	WTLE	<u>3.</u> االح	لمے; WL	10;	FC	_;PH_	;	SOLIDS	<del>′′</del> ;c	L /85, P	v <u>9</u>
	YP6;	GELS:3	∠Z; OIL	<del></del> ;	Lcм_ <i>Z</i> _	کد;_	a.l.t	3045	20_		<del></del>
		· · ·		•				·			·
BIT . NO.	SERIAL NO.	SIZE	MAKE 	TYPE	JET SIZE	S	NEW/ USED	FROM -	то	FEET	HOURS
5	P.P. 3154	> 1/2	SIC	F-3			New	5890-	598	30	2
									_		
4_	l	_								804	61/4
		T		NO. کیم NO DEPTH	2 PUMP PF	RESSU	RE <u>SCE</u>	2PUMP3-2 _PUMP DA	"X	"XSP	'M
								•			•
•				<del></del>			R	IG	<del></del>		820
REMA	RKS:	257	CIPC (	Q 58	784	Lax	4 - 1	IUD			<u> </u>
				_	games		, , , , , , , , , , , , , , , , , , ,	/ATER ITS	· · · · · · · · · · · · · · · · · · ·		360
تــــ	مالم	d to	59		Last			OGGING			
مه	ethe	<u>```</u> Z	061	Jen t	my d.		1	ESTING			
	•		·		<del></del>		, c	EMENTING_	<del></del>		
			· · · · · · · · · · · · · · · · · · ·				R	ENTALS	<del></del> -		500
							1	MATERIALS (	csg &.wh	v	
		<del></del>	<del></del>				1.5	KPV		<del></del>	200
					-	- i	MAR02	-0280 _		MAR-2	180 -
								AILY TOTAL	<del></del> _		4380 
	•							UMULATIVE	<u>:</u>	19	0087

			,	DAILY	DRILLING F	REPORT		•	•
			•		0		·· ;		•
		•	DAT8	:	8-21-8	<del></del>		•	
			DAY_		8	· · · · · · · · · · · · · · · · · · ·	<del>.</del>		
•			OPER	RATOR_	TXO	<u> </u>	<del></del>		
			WEL	i Bu	ckles"B	"#/			
	DEPTH_	58	· 10	OPERATION	ONS REPORT	TIME	Drlg		
			3.2.5	FE	ET DRILLED IN	LAST TV	WENTY-FOUR HOU	IRS.	
	FORMAT	:			"B"				
14115					•				
MUD					•		SOLIDS;C	L Z & Z; P\	/
	YP;	GELS	; OIL	<del></del> ;	LCM;_	· · · · · · · · · · · · · · · · · · ·		·	<del></del> .
BIT .	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	Hours
4		7 7/8	HIC	J-22	15-15-15	New	5087	723	54%
				,	<u> </u>		<u> </u>		
WEIGH	HT ON B!	T_35	_RPM				PUMP"X		
			•	NO	2 PUMP PRESS	URE_/JJ_C	ЭимР <u>.5%</u> "Х <u>ノ</u> ҂	X. <b>4.7</b> SP	M
SURV	EYS: DE		NGLE	DEPTH	ANGLE	] . [	DAILY CO	<u>STS</u>	
	1.3	500				-	6		5500
•	·	<u>:======~</u>  460	·		<u></u>		G JD		2000
	RKS:	19 b			rles "A"	-   w	ATER		130
_5	5.50'-	556	Z <i>5</i>	<u>''/· →</u>	<i>1"\.</i> → 5"\.	_ `  Bi	TS		
•	<del></del>	<u>,,</u>		<del></del>		-   LC	OGGING		
<del></del>		\.				- Т	ESTING	MAR0	2-0281
<u> </u>	616 - B	 [ん	1:3	ツッショ	"/ 7 5"/		MENTING		
							ENTALS ATERIALS (csg & wh		360
		_		······································			Excl		2400
<del> </del>					·		athole		2800

12934

DAILY TOTAL CUMULATIVE

	•		DATE	<del>-</del>	8-20-81	•	· · · · ·					
					8							
					TXO		<del></del>					
						Buck.	Jes" B" 1					
	DEPT	н_ <i>5.52.</i>			ONS REPORT							
	<b>5</b>				•		TWENTY-FOUR H	HOURS				
•	FORM	•					· (1.2.1.1.1.1.001.1.1	100110.				
MINO							. EOLIDS .3 5		v 2			
MOD:	WT_03VIS_32; WL_15; FC; PH_7; SOLIDS_3.5; CL_177; PV_6 YP_8; GELS_3/6; OIL; LCM; 501+: 291000											
	τ Ρ	1, GELS_9	, OIL	<del></del> ,	LCM, _3	9.17	X41000		<del></del> .			
BIT ·· NO.	SERIAI NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET .	Hours			
4		7 7/8	HTC	J-22	15-15:15				32			
				<u> </u>	·		<u> </u> .					
WEIGH	HT ON	BIT <u>35</u>	RPM				DPUMP_152"XZ					
SURV	EYS:	DEPTH   A	NGLE	DEPTH	ANGLE	} . [	DAILY	COSTS				
<del></del>						-    -	RIG	<u> </u>	6500			
	-					_   '	MUD		1325			
REMA	RKS:_					•	WATER		130			
							3ITS _OGGING					
		<del></del>			·.		TESTING					
<u> </u>	`		<del></del>			-	CEMENTING					
						s	RENTALS		340			
					<del></del>		MATERIALS (csg 8					
						- · <u> </u>	Supr		200			
		ų				_ N	1AR02-0282	MAR	-282			
					·	-	DAILY TOTAL		8695			
							CUMULATIVE	22	1275			

# UAILY UNILLING REPURT .

			DAT	Ε	8-19-	81			•
			DAY	•	<u> </u>				
			OPE	PATAP	TXO	•			•
					•				
			WEI	L Buc	Kles"B"	/			
	DEPT	H <u>255</u>	00	OPERATI	ONS REPORT	TIME	Drlg		
			29.	5 FE	ET DRILLED IN	LAST T	WENTY-FOUR HO	OURS.	
	FORM	::NOITA	Kib	ber		· .			
MUD.				V			2		. /
MOD					•	•	SOLIDS 3.5	;CL; P\	<u></u>
	YP_	_;GELS <u>-</u>	//æ; OIL	<del></del> ;	LCM;;	Saltia	797000		<del></del>
DIT.	Lecolar		1 140165		T 157 51755	I	T = 50.11		
BIT . NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET '	HOURS
3_								1103	714
7	asz.3.	3 7 1/2	HIC	123	15-15-15	New	508)	113	7
		-			<u> </u>				
WEIG	NO TH	BIT_38	RPM	60 NO	. I PUMP PRESS	URE	_PUMP"X	_"X SP	М
				ЙО	2 PUMP PRESS	URE <i>\$00</i>	PUMP_5_"X_/	<b>∠</b> "X_ <u>~</u> #SP	М
SURV	EYS: [	DEPTH	ANGLE	DEPTH	ANGLE	آ	DAILY	COSTS	
		5081	11/40				·		
						RI	G		500
						М	JD <u>94168</u>		
. REMA	RKS:					· ]	ATER		130
					<del></del>	- Ві	TS	•	
		٠.,			· <del></del>	1	OGGING		
		\	-	•			ESTING		
	•						MENTING		
							ENTALS		_
		•					ATERIALS (csg &		
						•	upv	····	200
			•		·	•	•	MAR-	
						MAR0	2-0283 -	1417/1/-7	
		·	<del></del> ,			_ D/	AILY TOTAL		8930.
						_	JMULATIVE		64 273

			DATE	<b>.</b>	8 - 18-	81			•
					. 7				
				ř	TXO				٠
					ekler "B	11 <u>#</u>			
		•					• •		
	DEPTH.	49	Z.S. (	OPERATIO	NS REPORT	TIME	Drlg		
	•		<del>2.95</del>	FE	ET DRILLED IN	LAST TY	WENTY-FOUR HO	URS.	
	FORMAT	TON:	Spea	rc fi	<u>.                                    </u>		·		
MUD:							soLids <u>3.5</u> ;	# 293; PI	/ <u>-//</u> .
	YP_7_	GELS:3	<u>_</u> ; oil	·;	LCM;				
					, 	·	· :		
BIT · NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS
.3	76880	9 71/8	SEC	<b>5</b> 84F	15-15-15	New	3987-	9 8.8	63
					· · · · · · · · · · · · · · · · · · ·				
WEIGH	HT ON B	T_30	_RPM/				PUMP <u>5</u> と"x <u>ノ</u> _PUMP"X		
SURV	EYS: DE	PTH A	NGLE	DEPTH	ANGLE	7	DAILY C	OSTS	
				<del></del>		-			
			<u> </u>	<u> </u>		_	G		5900 1200
		$\sim$			53-4966	- w	ATER	-	530
Rat	· e 4	"Pr >	3/4 1	nin/fy.	> 4 min/s	E BI	TS		
		<del>&lt;</del>	<del></del>	-		- LC	OGGING		
•		\	00		n Locati	en Ti	ESTING		
		<u>in</u>	•	naan.		- CE	MENTING	-	
	<del></del>	<u>'</u>	· · · · · · · · · · · · · · · · · · ·			- RS	ENTALS	<del></del>	1.7.5
				<del></del>		_ i _	ATERIALS (csg & w	•	
						- <u>L.S</u>	u pv		_ 2 <i>00</i>
						MAR02-	0284	MAR-2	284
						-   D/	AILY TOTAL		7980-
					,	-   cı	UMULATIVE	1.5	5343

v.T

			DATE	<u> </u>	8-17				
			DAY_		6				
			OPF	RATOŔ	TXO				••
					Burke	Do 1 /	2" # /		
		416			ONS REPORT	•	•		
	DEPTH.					•		<del></del>	
	•	<u>ح</u>	80	FE	ET DRILLED I	LAST T	WENTY FOUR HOL	JRS.	
	FORMAT	ION:		-		·		<del></del>	•
MUD:	WT//):-	vis <u>.3</u>	<u>-</u> ; wl.	18	,FC <sub>.</sub> ;Pŀ	i <u>7</u> ;	solids <u>3.5</u> ;	CL; P	v_7
•	YP.	,GELS_2	) - 3; OIL	<del></del> -,	LCM;_		• • • • • • • • • • • • • • • • • • • •		
					·	•	•		•
BIT .	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS
3			·					· .	40
WEIGH	HT ON BI	!T	RPM	NO	L PHMP PRESS	SURF	PUMP "X	"x s	• • • • • • • • • • • • • • • • • • •
				ЙО	2 PUMP PRESS	SURE	_PUMP"X _PUMP"X	"XS	ъМ
SURV	EYS: DE	PTH A	NGLE	DEPTH	ANGLE	<u> </u>	DAILY C	OSTS	
	4	611	120					<del></del>	
٠ي						RI		<u> </u>	/ CM-33
REMA	PKS //	Orla	h	reat	- <u>-</u>			<u> </u>	15740
	4519	<del> </del>	(531	,			ATER		
	0,14.		1 23-130	1-64			TS DGGING		
<u></u>	···	`	/		·		ESTING		
	<del></del>	`.					MENTING		
	<del></del>		·			· RE	ENTALS	150	
				···	•	—   м,	ATERIALS (csg & w	h)	
					<del></del>	-			4
<del></del>		<del></del>	<del></del>	<u>, —                                   </u>		-  -		MAR02-	0285 =
		·····	<del></del>			-  -		MAR	-285
						D/	AILY TOTAL	9,990	
<del></del>					,	<del></del>	<i></i> #	47.373	

		•	DAT	Ξ	5				•
			DAY.		8-16				
			OPE	RATOR	TXO	,			•
			WFI	1	Burbe	201 B" = 1	/ /		
	٥٥٥٣١١	430			,	TIME DI			
	UEPIH.		. ,		•	. •	$\cup$		·
		<u>ک</u> ۱	26_	F8	EET DRILLED IN	N LAST TWENTY-	FOUR HO	OURS.	
	FORMAT		·		<del></del>	····			
MUD:	WT <u>), 7</u>	(vis <u>. 3</u>	<u>, 그</u> ; WL	12	,FC;PH		3,5	CL; P\	1_7
	YPS_	GELS_	2-3; OIL	<del></del> ;	LCM;_	· · · · · · · · · · · · · · · · · · ·		·	
									·
BIT NO. ·	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ FROM	- TO	FEET	Hours
3									
						<u> </u>			
			<u> </u>	<u> </u>	<u> </u>				<u></u>
SURV	EYS: DE	PTH /	NGLE	DEPTH	·	] ·  .	DAILY (		'M
	<u> </u>					RIG MUD		•	
REMA	ARKS:	<del></del>		<del></del>		- WATER			·
			<del> </del>		·	- · BITS			
•		٠., _				<u> </u>			
		· · ·			<del>,</del>	TESTING_			
<del></del>	``\		·			CEMENTIN			
		1				- RENTALS_			
	<del> </del>			<del></del>		h h		2.14	
					•				
						MAR02-02	86	MAR-	286
						DAILY TOT		!i. 80C 137,383	
		<del></del>	<del></del>				· · - ·	101,000	

MILI	UNILLIN	O REFURI

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			DAT	Ξ	8-15		<del></del>		•
			DAY.	<del></del>	4				
			OPE	RATOR	$\top X \delta$	•			
				L	7	010	B # /		
		<b>~</b> ^ -¬			_		1,1		
	DEPTH.	<u>37/</u>	<del>9</del> (	OPERATIO	NS REPORT	TIME	V) Ny	<del></del>	
				FE	ET DRILLED II	N LAST T	WENTY FOUR HO	URS.	
	FORMAT	ION:	<del></del>			·		<del></del>	:
WilD:	w+9.7	VIS 3	9 . wi	20,5	=c .pL	. <i>9</i>	solids trace;	 C!	·
14100.							300103	·, P	v <u> </u>
	YP;	GELS	; OIL	<del></del> ; ۱	_CM; _		•		
BIT	SERIAL	SIZE	MAKE	TYPE	JET SIZES	NEW/	FROM - TO	FEET	HOURS
NO.	NO.	0.22			- · · · · · · · · · · · · · · · · · · ·	USED	11.000	' ' ' ' ' ' '	1100113
2	<u>:</u>		Sm: +/	SDF	316 jets		3485-37	37 47.9	
3	74887	,	Securi	5845	3.71				
	<u> </u>				······································		<u> </u>		
WEIGH	HT ON BI	т <u>30</u>	_RPME				_PUMP"X	_"x <u>_{</u> 4 si	PМ
	•			NO :	2 PUMP PRESS	SURE	_PUMP"X	_"X Si	PM
SURV	EYS: DE	PTH A	VGLE	DEPTH	ANGLE		DAILY C	OSTS	
		140 3	356	3 <del>9</del> 85	- 15			<del></del>	
				- <del></del>		_  R	16 <u> </u>	7. 700	
DCM	.RKS:						UD	50	
KEMA	.KN3:				•	i	'ATER/'		
						} <sup>-</sup>	ITS		
	•						OGGING		
		``			`		ESTING	MAR0	2-0287
•	`.						EMENTING ENTALS		
				·	·····	_   ''	ATERIALS (csg & w Fuel	n <u></u>	45
							wold in	350	
	<del></del>				· · · · · · · · · · · · · · · · · · ·	_	Truck ida	20	25-00
		•			<del></del>	_		<u></u>	AR-287
	<del></del> -		· <del></del>	-		_	AILY TOTAL	* 3 <i>5, 0</i> 0	70
	·	- <del></del> -					UMULATIVE \$	125.58	3

			DATE	<u> </u>	8:17	4-81			
			DAY_		3				
			OPE	O A T O B	TXO				••••
					Burkon	^ ′′	<del></del> 3″/		• •
					Li- //-		•		••
	DEPTH.	246	<u>a</u> (	OPERATI	ONS REPORT	TIME	Dela.		
	·		1,25	6_ FE	ET DRILLED I	N LAST T	WENTY-FOUR I	HOURS.	
	FORMAT					•			
•	Wtr				50 5		201.100	. 61	
MUU:	•				•		SOLIDS	_;CL;P	<u> </u>
	YP;	GELS	; OIL	;	LCM;				
DIT	CEDIAL	SIZE	MAKE	TYPE	LIET CIZEC	· .	FROM - TO	FEET	
BIT NO	SERIAL NO.		1 .	1175	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS
	B 8014	7.7	Smith	FNS	16			<u> </u>	
	<u> </u>		<u> </u>		<u> </u>		<u> </u>	. ;	
WEIG	HT ON B	т <u>25".</u>	30RPM_2	00 NO	. I PUMP PRES	SURE 600	PUMP_52" X !	6 "x 64 s	
				. NO	2 PUMP PRES	SURE	_PUMP"X_	SI	PM
SURV	/EYS: DE	PTHIA	NGLE	DEPTH			DAILY	COSTS	•
	1/5	300	1 6.	232	5 10	4			• .
		-23		<del></del>			G	25. 120	 - ======= :
REM	 ARKS:	NU	5-1	hrs.			JD ATER	3 000	
	V ()	· C SQ	hd	a sser	nbly, 12	$kr \mid l$	TS		
	<u> </u>		0				OGGING		
	Will out	ing s	hue e	11: pm	8-13-81		ĖSTING		*****
<del></del> :				<del></del>		—  -c	MENTING		·
. —	<u></u>	·····	<del></del>			RI	ENTALS	100	
				··		,	ATERIALS (csg )		
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		<del></del>		<del></del>		_		•	
-		•		·		_ MAF	202-0288	MAR-	288 =
							AILY TOTAL	30, 7	20
-						<del></del>	UMULATIVE	90, 5	
					<del>,</del>				

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			OPE	RATOR_	7	XO	3 12 A			
			WEL	L	Buckli	DE				
	DEPTH.	120	06	OPERATI	ONS REPOR	T TIME_	WOG	·	·	
	•				ET DRILLED				25	
	CODIA	:					•			
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MUD:	WT;	VIS	; WL		,FC;	PH	_; SOLIDS	;CL	;P	V
	YP	GELS	; OIL	<del></del> ;	LCM	·,				
										•
BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEV		ТО	FEET	HOURS
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			<del> </del>		1					
			1			1			<del></del>	
WEIG	UT 011 0		554				0			
WEIG	HI ON B	} (	RPM	NO NO	1 PUMP PRE	.SSURE .SSURE	PUMP PUMP	"X"	X SI X SI	>M >M
SURV	EYS: DE	EPTH .	ANGLE	DEPTH	I ANGLE	<del>-</del>	D	AILY CO	STS.	
									L 9-20	
	<u></u>		<u>_</u>				MUD 9/0	·	4.1.2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
REMA	ARKS:	Sit.	Pi		₹÷		WATER	••••	930	
<del></del>	211	<del>(</del>	1	<u> </u>	<i>i.</i> )		BITS			
<del></del>	Pip	e s	<u>ĕ 1 9</u>	<u> </u>		X 1 8 7 8 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	LOGGING			
	55,5	<u>pt</u>	Y	0:		<del>? -</del>	TESTING			
	67.		<u> 76a </u>	SX_	Cent	<del></del>	CEMENTING	3	<del></del>	·
	C/17		<u>.</u>			17/2/E	RENTALS_			
	1/4 =	(+//	<del>-,</del> -/	<u> </u>	; <u>X</u> ;;≠≠		MATERIALS	(csg & wh)	)	
	<u> </u>	<u> </u>	· / 95		1111	·	Tuel		1.62	25
	ield	/	7. <del>1</del>	rd cer	whater	<u>-</u>	Wizz			0
	trough	ionti	Floor	held	& ERVID	ek.	lines		<u> </u>	
						<del></del>	- b. C.	<u>.                                    </u>	11 35	
				·	···		DAILY TOTAL		36,45 24.	દ ટ ાંગ
9000	er er er	<del>* 2</del>		Wast.		<del></del>	L	V C	<u> </u>	· · · · · · · · · · · · · · · · · · ·
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MAR-289

			DATE	<u> </u>	8-12-8				
	NO.   USED     NO.   RR   12 1/4"   HTC   322   U   0 860' 860	••							
		٠					······································		•
	DEDELL	81-0					Lilling Lunta	.c.e.	
	DEPIH						V		•
		<u> </u>	)	FE	ET DRILLED II	V LAST TV	WENTY-FOUR HO	URS.	
	FORMAT	ION:	surf	ace_					
IUD:	WT)0.1;	VIS_4	<u>//;</u> wL	<u>Ne</u> ;	FC;PH	1;	SOLIDS;	CL;P	v
	YP;	GELS	;OIL	<del></del> ;	LCM;_	<del></del>		·	
1 T O.		SIZE	MAKE	TYPE	JET SIZES		FROM - TO	FEET	HOURS
Α	RR	1214"	HTC		322	U	0 860'	960	
				<u></u>					
	L	L	<u> </u>	1	l	<u> </u>	l		<u> </u>
SURV	EYS: DE	PTH A	NGLE	DEPTH	ANGLE	7 [	DAILY C	OSTS	
						RI	G	<i>F</i>	7,200
	N DIVO	Parida	int a	ta	۸،، ۵۰ ۵۰ ۱۱۵	M	UD		2000
		12140	ale to	860'.	turi for lit				1000
		_				1 5			• •
		·····		·					
		<del></del>	<del></del>			— c	EMENTING		•
					··	— R	ENTALS		200
						1		vh)	/4 000
							No more	···	/0,000
									. •
<u></u>						_ [_			
						D	AILY TOTAL	. 7:	29,400 -
						<del></del>	UMULATIVE	\$29,400	

MAR-290

8-11-81 Buckles "E" #1

Rig slut down for routine maintenance, will spud 8-12-81.

8-11-81 State C" #1 SI to shoot FL

Sec. 22-T28N-R51E Roosevelt County

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MAR02-0292

MAR-292

Sylverity

16-14-17 **(0**1)

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#### DAILY REPORT

WELL: BUCKLES		DATE: 31 A	AUGUST,
•		ft./24 hr.	·
		10.72: 111.	:
PRESENT OPERATION	•	· · · · · · · · · · · · · · · · · · ·	
GENERAL LITHULUG	Y: CHARLES FORMATION	CHAPLES C' G	@ 5821(-3t04)
			•
·			
ZONES OF LI	THOLOGIC CHANGE:		
	<u> </u>		
SAMPLE COND	ITION:		
AVERAGE DRII	LLING RATE:	<del></del>	
DRILLING BRI	EAKS:		
			•
LOST CIRCULA	ATION ZONES:		
SAMPLE TOPS CHA	RLES @ FATIS - 3359 8'1) (A7	2001 5557 (3440) (8-200)	
L'OGGING UNIT BREA	AKDOWN: (GREEN POINT ETCH	· (-3589) 16'A)	-
TIME (HRS.) INTERVAL:	·	(-3605) /	
	,VISCOSITY	BACKEBOHNU GAZ	TOTAL RICK.
<i>,</i>	<b>\</b>		
	1200 pm (1000) Tope		•
<del></del>	PTO CHARLES C - ZONE		
	OIL IN CUTINOS, SCA	•	
SUM TO	FAIR MILKY CUTS . G	· ·	٠,
Nº / 58AL 26		3/2 MINUTES PER	600T
1 <u>e 5830  </u>	-3703)		MAR02-0293 -
Chart. Co.	<u> </u>		MAR-293

165

#### DAILY REPORT

–	~	•	DATE:_ao_	AUGUST	
MELL	: Buckles# B-1				
PRES	ENT TD: 5516 (approx 37 into charles)	316	ft./24 hr.		
PRES	ENT OPERATION: drla				
	RAL LITHOLOGY:	·			
				<u>.</u>	
	ZONES OF LITHOLOGIC CHANGE:				
					† *
	•				
. •	SAMPLE CONDITION:	_			
	AVERAGE DRILLING RATE:	-			
	DRILLING BREAKS:				
	LOST CIRCULATION ZONES:			•	• ,
SAMPI	LE TOPS:				
	ING UNIT BREAKDOWN:	<del></del>			
	TIME (HRS.):				
	MUD WT: 10.3 , VISCOSITY 33	,BACKGROU	JND GAS	, TRIP GAS	
•	REMARKS: Kibby @ 5180 -30		to Buckles	`	
`.				,	
	. ;				
					<del></del>
		•			
				MAR02-0294	

**MAR-294** 

#### DAILY REPORT

WELL:	: Buckles B-1	DATE: 19 AUGUST OI
		·
	ENT TD: <u>5200'</u>	ft./24 hr.
	ENT OPERATION: OTTER	•
GENEF	RAL LITHOLOGY:	
	ZONES OF LITHOLOGIC CHANGE:	
	•	
•	SAMPLE CONDITION:	, , ,
	AVERAGE DRILLING RATE:	
		· · · · · · · · · · · · · · · · · · ·
		•
	LUST CIRCULATION ZUNES	
CAMO		
	•	
LOGGI	ING UNIT BREAKDOWN:	
	TIME (HRS.):INTERVAL:	
	MUD WT: 10.4 , VISCOSITY	3a,BACKGROUND GAS, TRIP GAS
	REMARKS: Wells 17	
`.		
	TIP TO ACK! OF THE	oit on btm:
,		
	ų.	Kalin Dues Midlegger
		Carter Stewert Geo: MAR02-0295

#### ELECTRIC LOG DISTRIBUTION Buckles "B" #1

TXO Production Corp. 2705 Montana Avenue, Suite 300 Billings, Montana 59101	4 Field 4 Final 1 Sepia
ATTN: Mike Walen	
TXO Production Corp. 2150 Fidelity Union Tower Dallas, Texas 75201	1 Field 1 Final
ATTN: Engineering & Production	
Board of Oil & Gas Conservation 2535 St. John's Avenue Billings, Montana - 59102	3 Final
Dorrance D. Steel'e Oil & Gas Supervisor Fort Peck Agency Box 637 Poplar, Montana 59255	1 Final

ELECTRIC LOGS: Telecopier on location, telecopy important zones of interest to: (406) 248-4330

TXO Production Corp.

Billings, Montana

#### RED RIVER MUD CO.

NO. \_\_\_\_

115 8th Street West Williston, North Dakota 58801 Phone 701-572-7857

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DATE_	8-27	198/	DEPTH 592	20
API WELL	STATE	COUNTY	WELL	S/T
NO.			113 312 .	

		-VI	NO.		3 101		
OPERATOR		CONTRACTOR			RIG NO.		
ADDRESS OIL A CAS		ADDRESS	AP		SPUD DATE		
ALLINGS		AUUNESS	16		8-11-	81	
REPORT FOR MR.		REPORT FOR			WNSHIP, RANGE		
WALT DYER	Territ on		COUNTY	12.	1000	15	
BUCKLES #1	. FIELD ON	BLOCK NO.	ROBE	IEIT	STATE		
OPERATION CASING		OLUME (BBL)	1120000		ATION DATA		
PRESENT ACTIVITY SURFACE	HOLE	PITS	PUMP SIZE	× IN	ANNULAR VEL. (FT.	/MIN)	
1066119 856 IN. at 1149 F		300	5/2	14	OPPOSITE DP	197	
BIT SIZE (IN)  NO INTERMEDIATE  IN. at F	T. VOLUME	678	PUMP MAKE MODEL	550	OPPOSITE COLLAR	358	
DRILL PIPE SIZE TYPE PRODUCTION OR LINE	IN STORA		BBLISTROKE		CIRCULATING	800	
Vet.	T		1/26	64	PRESSURE PSI BOTTOMS UP (MIN	1.7	
SIZE 614 509 GALT GEL-	0001011		BBUMIN		SYSTEM	85	
SIZE 6 14 509 : GALT GEL-	STARCH	DAILY COS	11 80	Tour	ULATIVE COST	- 14. 2	
FLOWLINE TEMPERATUREOF	PROPERTI		6991	COM	20399		
TIME SAMPLE TAKEN	0900		MUD PR	OPERTIES SPECIFI	ICATIONS		
DEPTH (FT)	5920	WEIGHT	YIS	COSITY	FILTRATE		
WEIGHT D(PPG) D(LB./CU. FT)	10.4	BY AUTHOR		WRITTEN REPRESENTATIVE	DOTHER CONT	ACTOR	
MUD GRADIENT (PSI/FT)	.5408		TINLEWAIDY 2	NET NEGENTALIVE	LUINEN		
FUNNEL VISCOSITY (SEC./QT.) API ATOF	42	Mic	2 451	repec ?	to Kun	PINT	
PLASTIC VISCOSITY OF ATOF .	12		-10	1			
YIELD POINT (LB/100 SQ. FT.)	8	Ma	want	To v	47 13 9	litte	
GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN.	3-8			7			
PH 🗆 STRIP 🗆 METER	7.0	moi	more Fibar				
FILTRATE API (MI./30 MIN)	6.0						
API HT-HP FILTRATE (ML/30 MIN.)		* 11					
CAKE THICKNESS 32nd IN. API HT-HP	2/32						
P-ALKALINITY (PF.) 4 PM 44 1 1 11 11 11 11					1/5	1	
METHYL ORANGE ALKALINITY	/	- 1					
SALT GP.P.M. 306, 745 CHLORIDE GP.P.M. 18	2,300	e L					
CALCIUM DP.P.M. DGYP (PPB)	Huz						
SAND CONTENT (% BY VOL.)	TR						
SOLIDS CONTENT (% BY VOL.)	342						
OIL CONTENT (% BY VOL.)	0					- 1	
WATER CONTENT (% BY VOL.)	9642						
METHYLENE BLUE CAPACITY ☐(ml/ml mud) ☐(equiv. W/Bb). bent.)				i		-	
Chromite	800						
- Chromatic	1 000 1						
Remarks and Recommendations:							
CTORCH - EE	STARC	N - 15	-	22.11			
3 / 10/1			( 4	22 110			
BALT GEL - 96 ) 215T	SAIT GE	- 36	( 4)	300			
SAIT - 45 (1-191)	CEDAN F	BEN - 2:	5)				
MICA - 65 (30/1							
	1		fi.	£	1	1)	
- MARINETTA					11 1	110	
PEDDER FIBER - 72	-		74	-	1 work	100	
BANITE -25/	To the lead			1	/		
		7			1 5.5		
an a Kork	E .						

SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

### RED RIVER MUD

115 8th Street West Williston, North Dakota 58801 Phone 701-572-7857

OPERATOR

ADDRESS

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LÆ.	1	41
1	ш	11

CONTRACTOR

ADDRESS

			, ne	NO
DATE	8.2	1 19 81	DEPTH 5	822
API	STATE	COUNTY	WELL	S/T
MELL WELL				
Bira	1	1	RIG NO.	
Ris			SPUD DATE	31
,,	SECT		SHIP, RANGE	
theuse	250	22 - 2	8N-516	3
ROUNTY	score	It ST	Mant	
		CIRCULATIO	N DATA	

REPORT FOR MR.		REPORT SOR	11		WNSHIP, RANGE	
Walt Nya		FIELD OR B	100000	COUNTY.	12 -	28N-516 STATE
WELL NAME ANDINO. Buckles 8th			Pople		cuelt	Mart
OPERATION	CASING	MUDVO	DLUME (BBL)		CIRCUL	ATION DATA
PRESENTACTIVITY SUBE	ACE: 8 IN. al 1/49 FT.	HOLE 373	900	PUMP SIZE	× IN KIY	ANNULAR VEL. (FT/MIN) OPPOSITE DP 197
BIT SIZE (IN) NO INTE	RMEDIATE  IN. at FT.	TOTAL CIRC VOLUME	673	PUMP MAKE /	50	OPPOSITE COLLAR 358
4/2 XH	IN. at FT.	INSTORAG	E	1126	STROKE/MIN	PRESSURE PSI 800 BOTTOMS UP (MIN) 45
SIZE 64 509	TYPE Salt G	el- Star	rely	BBUMIN 8Z		SYSTEM TOTAL (MIN) 83
SAMPLE FROM FLOWL FLOWLINE TEMPERATURE	INEPIT	MUD PROPERTIE	DAILY CO:	1950	CUM	13,408
TIME SAMPLE TAKEN		0800		MUD P	ROPERTIES SPECIF	CATIONS
DEPTH (FT) CLASS OF ST COM	A*	5822	WEIGHT	VI	SCOSITY	FILTRATE
WEIGHT [PPG] [(LB./CU.FT);		10.5	BY AUTHOR		S WRITTEN	DORILLING CONTRACTOR
MUD GRADIENT (PSI/FT)		5312		[]OPERATOR :	KEPKESENIAIIVI	E COTHEN
FUNNEL VISCOSITY (SEC./OT.) API A		35	Stow	1-8-110	sv /thu	is as as needed
PLASTIC VISCOSITY OF AT		9	The Control of the Co	15-18	ac w.L.	
YIELD POINT (LB./100 SQ. FT.)		6		- (		
GEL STRENGTH (LB./100 SQ. FT.) 10	SEC./10 MIN.	3-7	Salt	Tel- 105%	ITour	or as needed to
PH   STRIP   METER	Q- 1	7.0		35-40		
FILTRATE API (MI./30 MIN)	( ) ( ) ( ) ( ) ( )	17				
API HT-HP FILTRATE (ML/30 MIN.)	OF		Salt	- 30 78/	Tour	
CAKE THICKNESS 32nd IN. API	HT-HP	1/32		/	-	
P-ALKALINITY (PF.) & PM			Min	2- 55x	Tour	J.
METHYL ORANGE ALKALINITY				,		
SALT GP.P.M. 304,596 CHLOR	DE DR.P.M.	74 600	FILE	v- 20 5x	YTour	
CALCIUM DP.P.M. DGYP (PPB)		Huy	-		/	
SAND CONTENT (% BY VOL.)	. 1	TR	Chan	vate- 1	ix an	Lon lites
SOLIDS CONTENT (% BY VOL.)	V <sub>4</sub>	342	4			,
OIL CONTENT (% BY VOL.)		0	Russ	Gend	1"STree	un solt tho I
WATER CONTENT (% BY VOL.)		961/2	<	GIT 661		
METHYLENE BLUE CAPACITY DI	ml/ml mud) aquiv. #/Bbl. bent.)					
	Inomit's	850				
Remarks and Recommendations:	a social social is a	2.182	Raisi	· w7.	10 10.8	3 w/salt i Baril
			, ,			/
Stavels-21						

Lester V. SERVICE ENGINEER

TELEPHONE

EXCHANGE

MOBILE SERVICE

WHSE. NO. AND LOCATION

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER
SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS,
AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

115 8th Street West Williston, North Dakota 58801

	1 20		Ŧ-	4		NO.	_
FA.	DATE_	3-20	19 8	2/	DEPTH 3	33	5
1	API	STATE	COUNT	Yi	WELL		S/T
_	NO.	11	1/3	4			
700	WELL .		v /3	1			

REPORT

OPERATOR			-	-10	ONTRACTOR	NO.		RIG NO.			
	EXAS	oit of GAS	1 150	10 5	1	RIAD .	1	5			
ADDRESS			1	· Al	DDRESS,	10 -	39 .	SPUD DATE	15		
1	BILLY	195	-	7 7		iG.	Песстон	TOWNSHIP PANCE			
REPORT FOR MR.	IIT D	iced .	1.11	HE	ALL DOWN	HONGON		TOWNSHIP, RANGE	- N		
WELL NAME AND		VEK	FIELD	OR BLOC	the state of the s	COUNTY		STATE			
Bo	CHIES	#/	See	WI	condition.	Agos	EURLT !	MONT	1 1		
OPERATIO	N ,	CASING	i MI	JD VOLU	ME (BBL)	Williams		ULATION DATA	BL.		
DAILLI	C	854 IN. at 1149 FT.	HOLE 35	7	300	154	14	OPPOSITE DP	197		
T SIZE (IN)	NO4	INTERMEDIATE	The contract	CIRCULA ME	653	PUMP MAK	550	OPPOSITE COLLAR	358		
DRILL PIPE SIZE	TYPE Y-11	PRODUCTION OR LINE	11 11 11 11 11 11	RAGE	W	BBUSTROK	E STROKEM	PRESSURE PSI	800		
PRILL COLLAR	X-/+	MUD TYPE	-11-	10, -	117	BBUMIN	0-1	BOTTOMS UP (MIN)			
SIZE 64	509	GAH GEL	- 977			18	.0	TOTAL (MIN)	8/ 8/		
SAMPLE FROM FLOWLINE TEMPI		FLOWLINE PIT	PROPE		DAILY COS	1990	2 11 0	UMULATIVE COST	3		
TIME SAMPLE TAN	(EN	1	9100	1200	Ex W	MUD	PROPERTIES SPE	CIFICATIONS			
DEPTH (FT)	37.	P. B. C. Land	5535		WEIGHT /	0,4	VISCOSITY 75	-38: FILTRATE	9-17		
WEIGHT (PPG)	J(LB./CU. F	n's	10.3+		BY AUTHORIT	Y: OPERATO		TOTALLING CONTRA	CTOR :		
MUD GRADIENT (		2 7 A 1 1 1 1	.5356			LIDPERATO	H S HEFRESENIA	TIVE OTHER			
FUNNEL VISCOSI	TY (SEC./QT.	API ATOF	34	9	STAR	CH - 1	RGYI TO	IA DRIC VER	drh		
LASTIC VISCOSI	and a fact that the		7	1, 1	STARCH - BGX/ TOUR ORAS NEGRED						
TIELD POINT (LB.	100 SQ, FT.)	(b) (b) (c)	9	1	SALT	251 -	10 GV1 7	OUR OR 19 A	15 5000		
SEL STRENGTH (	B./100 SQ. /	T.) 10 SEC/10 MIN.	4-7		FOR	35-3	8 11:5	and the same of	· ·		
PH D STRIP CI M	ETER		7.0	-12-	SALT	- 3	7-35 6	YITOOR	man al		
- 1		And the State of the	15.	50 2	or in t		() ((* A)	AND TO STATE OF	· · · · · · · · · · · · · · · · · · ·		
		IN) OF !		Tight 78	Mich	A	5. GVI 7	71.110			
CAKE THICKNESS	32nd IN. A	HT-HP	292	17- 2	12.5	1 10 -	1	uun.	, E		
-ALKALINITY (PF		1 - 1	1	* 13 E	Clipana	TE - 6	01/1/1	YLITES ONE	2		
METHYL ORANGE	ALKALINIT	YE WAS A PROPERTY OF	-	The state of	CARONI	2	XIN	YAMAS GINE	-		
SALT CIP.P.M. 3	23/100	HLORIDE G.P.G. 184.00	(1		DENIA	EINEA	- 2 0V	TOOR	31		
CALCIUM DP.P.M	. DGYP (P	PB)	HUY	211,3	CENAM	FIAEA	25/	700%			
		Brown	70	250	Punt	111 000	EAM BA	HT HO WALL	151 114		
SOLIDS CONTEN			3/4	T.	1.00	218	1 3/0	MI WALL	DH.		
DIL CONTENT (%			0	17.5	10. 1	1.15	17 7 1	8-1-1-			
WATER CONTENT			9674	73	311	, ,	1 15 16	100			
METHYLENE BLU		TH-H-I A	1	45.7	3,	U.			7		
-	e 4"	CHAPMATE	900	June 7	ENTE	18 1	* 2x -1	19° ag' 1,11			
		VIVIEN ALIV	IIIIII								

3 <u>  1   1   1   1   1   1   1   1   1   </u>	MAR02-0299
STANCH - 31	
SALT OFL - 39	P
SALT - 70	1
MiCA - 20	Cicarle /
CHRONATE - 698	
CEPAN FIDER 8	log
Q L D S	5
Property of the second service of the second	MAR-200

SERVICE ENGINEER

TELEPHONE

TELEPHONE

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

#### RED RIVER MUD CO.

	115 8th Street We		E		1 10		1/	- Cap	7.1.	
Williston, North Dakota 58801					DATE 8-19 1981 DEPTH 5194					
41	Phone 701-572-78	57		WELL	STATE	COUNT	Y W	ELL	S/T	
ADED IN OR			li .	NO.						
OPERATOR TEYAC	Oil & GNS		CONTRACTOR	BIND	J.		RIG NO.	-		
ADDRESS			ADDRESS	DINP	-		SPUD DAT	F	_	
	N63		B	PiG .	Carlo	- A		11-8	1	
REPORT FOR MR.	DYER		BYNON		SECT	2002	VNSHIP, RAN			
WELL NAME AND NO.	DYEM	FIELD OF	A BLOCK NO.	COUNTY	11 0	22-0	STATE	15-		
Buck	153 #1	W	1/6	ROOS	EVELT	0.1	MOA	15		
OPERATION!	CASING	MUD	VOLUME (BBL)			CIRCULA	TION DATA	7		
PRESENT ACTIVITY	SURFACE 1/49	FT. 332	300	PUMP SIZ	E x IN	1	ANNULAR VE		IIN)	
BIT SIZE (IN) NO.	INTERMEDIATE	The state of the s	RCULATING	PUMP MAK	E ENSO		OPPOSITE DE		250	
78 4	: IN. at	FT. VOLUME		MODEL	550	0	OPPOSITE CO	LLAH	3.58	
DRILL PIPE SIZE TYPE	PRODUCTION OR LINE	FT. IN STORA	AGE	BBL/STROK			CIRCULATING PRESSURE P		800	
PRILL COLLAR LENGTH	MUD TYPE	7,0	Company of the Company	BBUMIN.	12-3	-1	BOTTOMS UP		41	
SIZE 64 509	SALT GEL	- STUR	CH	8.0	2		TOTAL (MIN)	3.	79	
SAMPLE FROM	FLOWLINE PIT	PROPERT	DAILY COS	1279	7	CUMU	LATIVE COST	110		
	) h		100	1				168		
TIME SAMPLE TAKEN	4	7.30	WEIGHT	, MUI	PROPERTIE	F-73-57	-			
MEIGHT (FT)	m.	5/94/	WEIGHT	0.5	VISCOSITY	100	3 FILTRATE		***	
WEIGHT (PPG) (CLBJCU, F MUD GRADIENT (PSI/FT)	115	10,4	BY AUTHORI		R'S WRITTE R'S REPRES		DOTHER	CONTRAC	TOR	
FUNNEL VISCOSITY (SEC./QT	JAPIAT OF	15408	1.11							
	6 1	33		CH - 8			BA AS A	VERNI	W.	
LASTIC VISCOSITY CP AT_		6	FOR		17: W		3	-0-		
MELD POINT (LB/100 SQ. FT.		8	3017	OFL -	109	EX/ T	QUIR	-		
GEL STRENGTH (LB./100 SQ.	FT.) TO SEC./TO MIN.	3-6			- 9 7	1 1	1	2		
H DI STRIP D METER		7.01	SALT	- KE	50 5	NIT	BBC FO	14	WITH	
ILTRATE API (MI./30 MIN)		17	1" 5	TAFAM	THRU	117	CAPPA	ox 2	55x/2	
API HT-HP FILTRATE (ML/30 N		10		- u						
CAKE THICKNESS 32nd IN. A	p	372	MICA	- 55X	1700	18		¥		
ALKALINITY (PF.) & PM				- 5	e l			t		
METHYL ORANGE ALKALINIT	515511		CHRON	MATE +	55X/	700	R DAY A	TES	ONLY	
ALT DG.P.G. 2904000		000			-					
ALCIUM DP.P.M. DGYP (P		14VY	RUN	6000 1	11 571	REAM	SAIT	10		
AND CONTENT (% BY VOL)	1	TR	1		- 9 1	J V	G/P			
SOLIDS CONTENT (% BY VOI	L) .	35	DUMP	AND G	FEAN	PiT	5 NS	WER	DED	
DIL CONTENT (% BY VOL.)		0		j.	4		7			
VATER CONTENT (% BY VOL		96/2	=1-1	17, 11	- 1. A.	2,	- 1		11	
METHYLENE BLUE CAPACITY	U(equiv, #/Bbt. bern.)									
CH	ROMATE	900		7	- 1	31 (160	seriff units asso	Allin I	34 132	
and the state of t				1 }	731 15				-	
emarks and Recommendatio	ns:	15,150	7	1				-		
STARCH - 2	.0									
SITGEL -2	8	the barrier		N1 : [10]*	ora et a	1	1.1.	r.		
BALT -3	4		N.	0.55	1	10	104	*		
HADMATE -	1			1000	D	1		-		
THE PROPERTY OF	1			20 10 30		/		-		
						-				
	1 1					116.1				

REPORT

MAR-300

SERVICE ENGINEER

TELEPHONE SERVICE WHITE HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

REPORT

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P	v,	-	_
-		_	-

115 8th Street West Williston, North Dakota 58801 Phone 701-572-7857

DATE 8	-18	2.118	2	DEPT	11/	199	3-11
DATE S	STATE	COUNT	Y.	4	WELL	W.	S/T
NO.	J. 3.	E1 34	1	7	iv.	( W)	11
TOP . T. C. C.		-		DIC NO		100	_

OPERATOR	2 1	at the state of the	The second of	CONTRACTO	NO.	RIG NO.					
TA	EXAS	0:1 \$ GAS		Z	RIAD	3					
ADDRESS	BiLLik	ugg		ADDRESS	ADDRESS PIC SPUD DATE 8-11-81						
REPORT FOR MR	WALT	DYER		REPORT FOR		TOWNSHIP, RANGE					
WELL NAME AND	Uchtes	#1	The second second	BLOCK NO.	ROOSEVELT	STATE					
OPERATIO	OPERATION CASING			VOLUME (BBL)	CIRC	CULATION DATA					
PRESENT ACTIVITY		SURFACE IN at 1149	HOLE 298	300 ·	PUMP SIZE × IN	ANNULAR VEL. (FT./MIN) OPPOSITE DP 197					
BIT SIZE (IN)	NO3	INTERMEDIATE	TOTAL CIP	CULATING	MODEL 550	OPPOSITE COLLAR . 3.58					
DRILL PIPE SIZE	Y-H.	PRODUCTION OR LINE	FT.		BBL/STROKE STROKE	AIN CIRCULATING 900 PRESSURE PSI 900 BOTTOMS UP (MIN) 37					
BIZE OLL	JO9	MUDTYPE GALT GEL	STARE	H	BBUMIN 8,0	SYSTEM: 75					
SAMPLE FROM FLOWLINE TEMP	ERATURE _	FLOWLINE PIT	PROPERTI	DAILY CO	1249	CUMULATIVE COST 19 9					
TIME SAMPLE TA	KEN	An appearing an extension	8:30	and the state of the	MUD PROPERTIES SPE	ECIFICATIONS AND					
DEPTH (FT)	12-15-7-	A Section 1	4993	WEIGHT.	10,5 VISCOSITY30.						
WEIGHT (PPG)	O(LB/CU. F	n.r. ar	10.5	BY AUTHO	RITY: OPERATOR'S WRITTEN	DRILLING CONTRACTOR					
MUD GRADIENT (	(PSI/FT)	94-15	2596		OPERATOR'S REPRESENTA	TIVE . LIGHTHER					
FUNNEL VISCOSI	ITY (SEC./QT.	API ATOF	33	STA	RCH - 8 1 9X/	TOUR AS NEEDED					
PLASTIC VISCOSI	TY CP AT	OF VICE	6		R 15WL	THE THEOLOGICAL					
YIELD POINT (LB.	/100 SQ. FT.)	J. W. S. G. C.	6	SALT	SALT - KEEP SALT ADL FULL WITH						
GEL STRENGTH (	LBJ100 SQ. I	FT.) 10 SEC./10 MIN.	4-6	111	I" STREAM THEY IT PAPMONY 25 SW/7						
PH K STRIP II M	IETER .		70	- 1 3							
FILTRATE API (MI.	/30 MIN)		24	SALT	SAIT GEL - 10 SVI TOUR						
API HT-HP FILTR	ATE (ML/30 M	(IN.) OF			en a gray . The	First of the second					
CAKE THICKNES	S 32nd IN. A	PI HT-HP	232	MICH	- 5 9Y/ TOOR	THE STATE OF THE					
P-ALKALINITY (PF	1 & PM	(数·类··达·)			Park. 1400 - 31.						
SALT CIP.P.M. 2		mbbu	0.74)	CHAO	DATE - 5SX/DA	VIITES ONLY					
	,		200		A. 250						
CALCIUM DP.P.M			HUY	RUN	1" STREAM "SAL						
SAND CONTENT			TN	.e. 4.8		Constitution of the second					
SOLIDS CONTEN			35	DUM		PITS AS WEEDED.					
WATER CONTENT			011	- 17	* * * * * * * * * * * * * * * * * * *						
METHYLENE BLU			964	70.	The state of the s						
		CHRONRTE	900	#4 Cale							
Remarks and Rec	Section .	2. 10. 10.	10.00	1.0							
STARCH	- Internation	24	1. 12	10 Post	on the Election						
SAFT OFF		22	E-1	\$ 18 5 EM		1:W					
SALT	100 200	40	The street	· 100 4/5.	In the	19					
CHROMATE	un de la	1. 1. 1. 1. 1.		Modern Ch.	Jun						
JE FALL CO	13.8134.A	iterlysell view	T within	Evel We	ne - Lukshing	SERVICE STREET					
建等学 背線				Harting.	ersining, profit	John March					
维纳特别	ANT THE	经营销 经	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>"是我的我们</b>	<b>自动区域新兴地</b> 主	MAR02-0301					
Christian Carl of Christian	W. Carlot	A CONTRACTOR	and the state of t	Description was a		11.6					

MAR-301

SERVICE ENGINEER TELEPHONE SECHANGE MOBILE SERVICE WHISE NO AND LOCATION ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS. AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

REPORT NO.

	115 8	th Stree	t West	173
Will	iston, N	lorth Da	kota 5	8801
	Phone	701-572	2-7857	
	10	440	3. 17	t the
	A 10 1 1	-1-	200	

D	1	DATE 4	3-1	フ	3	19 (	211	DI	EPTI	4	46	64	2
4	9.	API WELL	STA	TE	·cc	NUN	TY;		ary.	WEL	E v		é
7	1.6	NO.			-	Å,	1	N	Ţ,		42		

4 10 13 25 1

	115 8th Street West	1	30.		0-17	011 111/11
Wil	liston, North Dakota 5	1. 10. 10.			DATE 9 // 19	91 DEPTH 4604
	Phone 701-572-7857		19.16.19		API STATE COUN	TY; WELL S/T
	and the second second	1.00.800	420134	Art and a	NO.	
OPERATOR TEXAS	0'L d. CAS	?	r C	ONTRACTOR BI	180	RIG NO. 3
ADDRESS BILL	ling B &	1300	A.	DORESS	e	8-11-81
REPORT FOR MR.		16. 35	RE	PORT FOR M	4 1 4 1 1	OWNSHIP, RANGE
WELL NAME AND NO.	DYER .	I FIELD	OR BLOC	BURON KNO.	COUNTY 22 -	28N-5/5
	X159 #/	1000	W/C	2	ROOSEVEELT	BONT
OPERATION	CASING	M	ND AOTH	ME (BBL)		ATION DATA
PRESENT ACTIVITY	856 IN at 1/49 FT	HOLE	14	200	PUMP SIZE X IN	OPPOSITE DP 197
BIT SIZE (IN) NO	INTERMEDIATE	- 67.4	CIRCULA	4.16	PUMP MAKE EN SCO	OPPOSITE COLLAR 358
728 3	IN at FT			594	MODEL 550	3,40
DRILL PIPE SIZE TYPE	PRODUCTION OR LINE	2.41 2.11	DRAGE	Short	BBLISTROKE STROKE/MIN	PRESSURE PSI
DRILL COLLAR LENGTH	MUD TYPE	na otte	άij,,		BBUMIN	SYSTEM TO THE
81ZE 64 509	FLOWLINE PIT	T			1 6.0	TOTAL (MIN)
FLOWLINE TEMPERATURE	128 OF	PROPE		DAILY COS	1200 CUN	AULATIVE COST O
TIME SAMPLE TAKEN	Marchael E	10:00	3	1415	MUD PROPERTIES SPECIF	TICATIONS
DEPTH (FT)	The Color Line Color	4/664	24 1	WEIGHT:	0.5 VISCOSITY 203	12 FILTRATEZOOC
WEIGHT (CIPPG) (CLBJCU, F		10.5	1 - 1	BY AUTHOR	TY: DOPERATOR'S WRITTEN	-   DRILLING CONTRACTOR
MUD GRADIENT (PSI/FT)		0546	ea T	373	OPERATOR'S REPRESENTATIV	E COTHER
FUNNEL VISCOSITY (SEC./QT		34	2.0. a	Grap	OH - 5 DUITA	UN ON 19 NEEDED
PLASTIC VISCOSITY CP AT _		1110	11 - 1		1 2000 WE	
YIELD POINT (LB/100 SQ. FT.		7.	25		GEL . 5 9K/ 70	
GEL STRENGTH (LB/100 SQ.	FT.) 10 SEC/10 MIN.	3-7	100	94-1	551/10	Car Care
PH Q STRIP CI METER	SECTION AND ADDRESS OF THE PARTY OF THE PART	70	1.8	CHRON	YATE - 194 DAYAT	C ANIN
FILTRATE API (MI/30 MIN)		18	1	140	ME LA Dajon	- Jan-y
API HT-HP FILTRATE (ML/30	MIN.) 10F	1	5	SALT	- HEEP . GALT I	OL FULL WITH
CAKE THICKNESS 32nd IN. A	PI HT-HP	2/12		III	STREAM SALT HZ	
PALKALINITY (PF.) & P	A CO PROGRAM	-	- V	and the	-1-1 BD - 1-1	111111111111111111111111111111111111111
METHYL ORANGE ALKALINIT		/	V*1-	RUN	111 STREAM SA	THOO .
SALT DP.P.M. 243700	CHLORIDE DP.P.M. / 78,010	1500	200	7 1, 2	THE PROPERTY OF THE PARTY OF TH	Strain or
CALCIUM DP.P.M. DGYP (F	РРВ)	the same	1404	DUM	P & CLEAN . P. 7	S AS NEEDED
SAND CONTENT (% BY VOL.	Water Kalenda	TR	6= 9	character of	Tean of The sales	ME CHANGE
SOLIDS CONTENT (% BY VO	Haraga Jan Jan	3/2	14.1	1 1/2 to	Net . S	of the same
OIL CONTENT (% BY VOL)	Employ College Service Alberta	0 32	10. 115	www.fligh	or to produce the production of	ture a support to a pro-
WATER CONTENT (% BY VOI		964	1	1,60	all the product	A Comment of the Comm
METHYLENE BLUE CAPACIT	Y (ml/ml mud) (equiv. #/Bbl. bent.)	-	55.44	3-1660	1. 内侧的 > 2 计基础程序	1986 (BL 190) Blift Ch. You
STRANGE FOR THE STREET	CHROMATE	950	3.5 m	Car Bar	west if high hands by	
TANK BUT OF B		5.18		3.4.	And the state of	And a second
Remarks and Recommendation	ons:	14 . 37		n - n.	10-0	19-10 a 19-10
The same of the same	Section 1	da '	170	DE-SIK	TER WIL UNDER	- 1/1. 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
STARCH	21	452,5	,	RESERVE	PIT H20 134	2000 CHIOR
SALY GEL -	3-4	1819	100	Comp. 2	221	100 - SALT
SAFT -	25	A TABLE	State of	m (III)	Pro Print and a	
CHROMATIC	11/1 - 11 - E	3577	62	7 72 11	上。 <b>从</b> 参约55,从	
	J. M. Jak C 7	3. 13	Train	1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
THE WAS A SECTION	APPLICATION OF	ART IS	Section	To section	. N MARIE - 18-14-17	MAR02-0302

SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE, NO, AND LOCATION ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY ON WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION ON WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

5-19

MAR-302

17 3	115 8th Street West
Will	liston, North Dakota 58801
3	Phone 701-572-7857

Williston, North Dakota	58801	do triba	M	DATE	8-1619	81 DEPTH 4300	$\tilde{\mathcal{H}}^{\mathbb{C}}$
Phone 701-572-785	7	12.	141	API	STATE COUN	and the design	П
		17 42		WELL;	3 18 6 16	13 8 45 1 12	
OPERATOR T MA /	C Treat	i C	ONTRACTOR	0 1	Fred As As S	RIG NO.	=
ADDRESS ADDRESS	2 3 3 1 1 X	1000	2) + 42 a 1 b	Bird	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	6	_
Billings	100	A .	DDRESS	1. 194 1	-217	SPUD DATE	
REPORT FOR MR.	te spois	: 8 B	EPORT FOR M	IR. Control	SECTION, TO	OWNSHIP, RANGE	_
Well NAME AND NO.	Heirie		101 2	Hoomes	22-	28W - 51E	_
Buchles #1	FIELD	OR BLO	CK NO.	COUNTY	H	Mont	
OPERATION CASING		UD VOLU	ME (BBL)	Koose	CIRCUL	1000	=
PRESENT ACTIVITY SURFACE	HOLE	33112	PITS	PUMPSIZE		ANNULAR VEL. (FT./MIN)	-
	T. 2	72	300		414	OPPOSITE DP 197	_
77/21 2	T. VOLU	CIRCULA ME.	572	PUMP MAKE MODEL	Ensco	OPPOSITE COLLAR 35	8_
DRILL PIPE SIZE TYPE PRODUCTION OR LINE	INST	DRAGE	10. V. S.	BBLISTROKE	STROKEMIN	CIRCULATING 900	5
PRILL GOLLAR LENGTH MUDTYPE	CONTROL DE	140-020	An an an an	BBUMIN	64	BOTTOMS UP (MIN) 33	_
Ja 17 (+1	- STa	ed	Marie 1988	80	the state of	TOTAL (MIN) 21	
SAMPLE FROM FLOWLINE PIT FLOWLINE TEMPERATURE OF	PROPE		DAILY COST	1800	CUM	ULATIVE COST :	=
TIME SAMPLE TAKEN	1200	The first				5740	=
DEPTH (FT)	0800	1201	WEIGHT			CATIONS	
WEIGHT □(PPG) □(LB./CU. FT)	4300	Para Day		10,5 VI	SCOSITY 30		_
MUD GRADIENT (PSI/FT)	10.5	to work 5	BI AUTHORIT		REPRESENTATIVE	DOTHER	-
FUNNEL VISCOSITY (SECJOT.) API ATOF	15408	. A.ye.,	OT: 1		,	17.5 72.7	_
PLASTIC VISCOSITY CP AT OF	32	\$ . v.l	Stand	4- 55K	Tour	ovas herded	/
MELD POINT (LB./100 SQ. FT.)	17	A	9 63 4	tor	2000 WL	q-1-m-1	-
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC/10 MIN.	5	6 25 7	0 1		- 1 W	1 d	
and the second s	2-3	6	20116	el- 55K	Tour	francisco de la constanta	
PH CI STRIP CI METER  ILTRATE API (MI./30 MIN)	7.0	- 07			, ,	P. Manual Control	
API HT-HP FILTRATE (ML/30 MIN.)	180	A - 25	Chron	where is	2 day le	Tes only	18
CAKE THICKNESS 32nd IN. API	2/	7 24	0	/	1	protect of the contract	
ALKALINITY (PF.) & PM.	2/32		Salt.	- treep	Sett 6	Il tull with	1
SETUVI ODANOS NIKALINITAS		4 1 1	L	strea-	solt	HO Thry i	Z
ALT SPP.M.		F William	3015 (335)		60'48'	ACKARAGE TO THE	
ALCIUM OPP.M. OGYP (PPB)	1	7.30	1	THE WHOLE		190-1857	5
AND CONTENT (% BY VOL.)	Huy	54 SEL	Kin	good	1'sTreo	in solt tho	y
OLIDS CONTENT (% BY VOL.)	17K	Service.	Strature co	4.163	C. Charles	Selection of the second	
IL CONTENT (% BY VOL)	13421	120 320			17124	1	_
VATER CONTENT (% BY VOL.)	011	2011/2014	Vien	pi C	lean p	Bas needed	
METHYLENE BLUE CAPACITY [D(ml/ml mud)   D(equiv. #/Bbl.jbent.)	96 1/2:		李珍莉 3	A TO SHOW A PROPERTY.	To the last	Alexander of the second	_
CIOCA CONTRA NO DE MICE O	an	W 199	439 St 151		is the	William Book Sales Control	_
Chronele	1.750	S. C. S. C. C.	at at a	To Brank	A STATE OF THE STA	Magazin Civis	_
emarks and Recommendations:							
Storly-37	SHAPE	85	X 1195 /	- 1314	S. Street, Sec.	Strange Andrew	-
SCH = 11	of No. 18	Signific	J. Marie C	T = diameter	to the second	STATE OF THE STATE	-
17	150	Silv	To the King of	Taracal Care	CONTRACTOR	MAR02-0303	
0.5	100	SEL I	C. THE SERVICE	THE PARTY NEW		WIAR02-0303	
5.0/1-2	. Latin	The Horis	Bushing K	7 1 1 1 2 3 5			
	阿尔哥	and .			6	194	,
the first of the control of the cont	48 5 30 4 5	To the second				///////////////////////////////////////	10.00

MAR-303

SERVICE ENGINEER

TELEPHONE

EXCHANGE, MOBILE SERVICE

WHSE NO, AND LOCATION
SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS,
AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

116 00 60 00			11.7	12 12 12 12 12 12 12 12 12 12 12 12 12 1				
115 8th Street West			(A)	DATE 8-15	19 8 / DEPTH 4025			
Williston, North Dakota	The state of the s		(A)	100				
Phone 701-572-785	/	1. 4	U	WELL STATE C	OUNTY WELL S/T			
20501702	er (h	Too	CONTRACTOR OF THE PARTY OF THE	NO.				
OPERATOR TEXAS OIL & GAS		CO	NTRACTOR	BIRD	RIG NO.5			
ADDRESS BILLING 9	1.00	AD	DRESS	1'G	SPUD DATE			
REPORT FOR MR.	Series of	REF	PORT FOR ME		, TOWNSHIP, RANGE			
WAIT	11	1.	BYROX	1 1/DNSOM 2	2-28 N-5/5			
BUCKLES ATT	FIELD OF	1/c	( NO.	ROOSENELT	STATE			
OPERATION CASING	MUD	VOLUM	E (BBL)		CULATION DATA			
PRESENT ACTIVITY SURFACE 859 IN. at 1/49 FT	HOLE 256		PITS	PUMP SIZE × IN	ANNULAR VEL. (FTJMIN) OPPOSITE DP 197			
BIT SIZE (IN) NO INTERMEDIATE	TOTAL CI	RCULAT		PUMP MAKE ENSCO				
DRILL PIPE SIZE TYPE PRODUCTION OR LINE			556	MODEL 550				
45 1-14 Nat F	IN STOR	AGE	8 1 1 1	126 64	PRESSURE PSI			
BIZE 64 509 MUD TYPE Salt (2)	-57	DIRCH	y	BBL/MIN	SYSTEM 64.5			
SAMPLE FROM FLOWLINE PIT	MUD	7	DAILY COST	22 12	CUMULATIVE COST			
	PROPERT	IES		A Landy Comment	The same of the sa			
TIME SAMPLE TAKEN	1:00	е.	WEIGHT 1	MUD PROPERTIES SP				
DEPTH (FT)	4025		BY AUTHORITY	D.4 VISCOSITY 3 2	FILTRATE 2046			
WEIGHT P(PPG) [(LB/CU, FT)	10,47		B: AUTHURIT	OPERATOR'S REPRESENT				
MUD GRADIENT (PSI/FT)  FUNNEL VISCOSITY (SEC./QT.) API ATOF	5408	- 10 - 10	0.	4	18-1-2-1			
PLASTIC VISCOSITY (SEC.IQT.) API ATOF	34		STAK		TOUR OR AS			
YIELD POINT (LB./100 SQ. FT.)	9		ALEEDA	ED FOR 20CC	Whi			
GEL STRENGTH (LBJ100 SQ. FT.) 10 SECJ10 MIN.	1	T, Y =	nauer					
PH+S STRIP □ METER	12/0	500 6	SALT	GEL - 5 SVI.	TOOK			
FILTRATE API (ML/30 MIN)	7,2		0114	1001	40			
API HT-HP FILTRATE (ML/30 MIN.)	28	1 . 3	CHRON	1ATE - 1SX)	TOURS WASHINGTON			
CAKE THICKNESS 32nd IN. API HT-HP	2/12							
PALKALINITY (PF.) & PM	122	95	SALT - KEEP GALT DOL FULL					
METHYL ORANGE ALKALINITY			All	ALL TIMES.				
SALT GR. G. G. G. CHLORIDE G. P.G. / COO			nasi	00000 11	2-17-2			
CALCIUM P.P.M. DGYP (PPB)			BON	6000 1"	STREAM SAIT NZ			
SAND CONTENT (% BY VOL.)	IR		n.I.m.	0	1 42-0 10			
SOLIDS CONTENT (% BY VOL.)	4/2		DUMI	DAND CLEN	IN PITS AS NEEDER			
OIL CONTENT (% BY VOL.)	0		, 3	1,5	The state of the s			
WATER CONTENT (% BY VOL.)	95/2							
METHYLENE BLUE CAPACITY (ml/ml mud)	10		la:	the setting of the				
CHRONATE	175		V-16-30		, plane -			
		5.	7-57	A Wednesday	34			
Remarks and Recommendations:	70000		22 - 2-					
219rd - 30	F 10 5	ant v	T. Care		/			
Salt Cel - 62			Marie I	11.2 45,65				
Preservative -1				The state of the party	(1),0			
Lme- 2		N. S. C.	Mary of the	12.01	/ hank loy			
Floc - 2	Property.	The D						
Sunt Burn Hope Service Suns	- 14.8	15/34	行事是	1000 MAN 141 W.C.	2			

MAR02-0304

MAR-304

SERVICE ENGINEER

TELEPHONE

EXCHANGE

MOBILE SERVICE

WHSE, NO. AND LOCATION

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER
SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS,
AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

# RIVER MUD C

115 8th Street West Williston, North Dakota 58801

M	DATE 8-14 18 8 DEPTH 3485							
41	API WELL	STATE	COUNTY	WELL	S/T			
	NO.		To 150 3	(3) Ye (4)				
RACTOR	-0.4	-	11	RIG NO.				

REPORT

	Phone 701-572-7857	1	有人質	T	WELL	STATE	COUNTY	3 . 3	WELL	124	SIT
	3 1 1 1 1 1 1 1 1 1	14.4		-13	NO.	2014	1,0			6.	1
OPERATOR	intil an		C	ONTRACTOR	200	4.	11 85	RIG N	10.	San	- 0
ADDRESS	1012 1 GAS			DDRESS	AD	- LF		eptin	DATE		
Billi	1999		^	. RIC	1 1 23 E	4	W.		11-81		
REPORT FOR MR.			В	EPORT FOR M			ON, TOW			4.0	_
WELL NAME AND NO.	DYER	Tricio	OR DI O		COUNTY :	1	-		- 51	E	
BUCKL	58 A# 1		V/C	CK NO.	BOOSE	1514		ME			
OPERATION	CASING		1	ME (BBL)	Thomas		IRCULATI			-	==
PRESENT ACTIVITY	SURFACE	HOLE		PITS	PUMP SIZE				R VEL. (FT	(NIML)	
PAILLING /VIDV	858 IN. at 11 99 FT.	22		300	54	14		PPOSIT		19	Z
BIT SIZE JIN) NO	INTERMEDIATE IN. at FT.	VOLUM	CIRCUL	520	MODEL TO	50	0	PPOSIT	E COLLAP	1.3	58
DRILL PIPE SIZE TYPE	PRODUCTION OR LINE	INST			BBLISTROKE	STROK		IRCULA		10	00
DRILL COLLAR LENGTH	MUD TYPE		2 1		.126 BBUMIN	64	- B		S UP (MIN	1) 125	8.
SIZE 641 509	Salt WADTER -	Star	di	and the second	8.0	1		YSTEM OTAL (M		6	5
	LOWLINE PIT	MU	D.	DAILY COS		15	CUMUL	ATIVE C	OST	NT.	
FLOWLINE TEMPERATURE	O <sub>F</sub>	PROPE	RTIES	3.00	50	1	1 2 1	17	40	See 1	
TIME SAMPLE TAKEN	T Check!	1800	y 9	Jan St.		ROPERTIES	SPECIFICAT	TIONS	0.00	6 3	-75
DEPTH (FT)		11/85	1 1 3	WEIGHT 9	8	SCOSITY	30-71	- FIL	TRATE	5-20	Dec
WEIGHT - EIPPG) [](LB.ICU. FT		9.7	- 7	BY AUTHORIT	Y: OPERATOR'				LING CONTI	RACTOR	-2085
MUD GRADIENT (PSI/FT)		5044	18 1 1	9.				1 = 1	1887 To	- 17	
FUNNEL VISCOSITY (SEC./QT.)	API ATOF	19	5 1	STavi	6-105x	Hou	Lor	as	need	ed t	or 1
PLASTIC VISCOSITY CP AT	0 <sub>F</sub>	1	Ec. u	1 2 2 2 2		( )	30 G	5.5		1-	
YIELD POINT (LB./100 SQ. FT.)		1	:	Salt	Gel- 105	2/10	ur	6 -		31	) 3m
GEL STRENGTH (LB./100 SQ. F	T.) 10 SEC/10 MIN.	0-0		12018.20		1		1	- 185	ic.	-
PH C STRIP C METER		8.0	1	Birot	wil av Pr	serva	1/2-	Liv	7	ere	4/20
FILTRATE API (MI/30 MIN)		20.4	4	1 10 10	1	1000			11.50	W as	
API HT-HP FILTRATE (ML/30 MI			r	Chira	nater -	Miv	258	0	+ 3	o'n	1.1
CAKE THICKNESS 32nd IN. AP	HT-HP	/32	1		nitial ?	7	2.			1/2	/
P-ALKALINITY (PF.) & PM	ř. † .	/		11	oy lites	**			השיר		2K C
METHYL ORANGE ALKALINITY	1	/			T	311	hide	7	St. 60.1	700	3
SALT DE.P.M. 204 600	HLORIDE DE.P.G. 124	442	1 .	C 11			1+			11	7
CALCIUM OP.P.M. OGYP (PP		Huy	ar .	34/1	Tree		HET STABLE I	116 12	WE KING	100,3	0/0
SAND CONTENT (% BY VOL.)		0	1	1	/ in 25	1	1 11/	V. V.	· / · V-	7	1 1
SOLIDS CONTENT (%-BY-VOL	)	TR	14	34	IT NO	131	.3	2 15	64 )	1100	oug.
OIL CONTENT (% BY VOL.)	- 3 1 1 1	0	1	138	11 H20	54		3	6.61	1 6	-
WATER CONTENT (% BY VOL.)		100	3	A State	11114	- 4		9. 3	1		
METHYLENE BLUE CAPACITY			\$25E-	100	w - well the	h 4	35 684		10,5		
	0 1	100	ule -		Contract of Contract		16-1		1111	-	
1	0.110.101-1	un l		227	24 - 1	-	I Jac		14		_
Remarks and Recommendation	151	2, 1	192 4 1	The Control of		- 8.	180	R. L.	- 1	1	
Floc-1 Me	eval for 8-13-81				2		100	4	37	7	1
Long-1			1	e en	1	-5/1	1 11 1				
Em !	( ) ( ) ( ) ( ) ( )			*	5 - 100		1 2 79 1		MARO	2-03	05
				146		Physical Control	21 34 1		neragra		
CONTRACTOR	र्वेशक्षी हार्गान् । अर्ग	1937 F	1g	the Hight.	7.01-36	1.513	Maria Sa	enrage.	1	415-41	i di
	MATERIAL TOTAL			T. J. J.			the state	/	17:	E,	
A Million - April 19	to the same	143+	14.5.5	to the rotal	g the same safes	1 441 11	() IN25	16/	11910	16	1
- 1	· · · · · · · · · · · · · · · · · · ·	(1	is and	0 1 NA	P 191 19 30 10	2 00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/1	Lung	410	-
1	- N= N= N=	(3)	11		L. The Park	igus, il			75	64	
VIJA	6.9	4 5	Start 1	a dank of	The section of the se		4			7.7	

Terry Hendrica 572-7857 CU: (ISTO)

SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE NO. AND LOCATION ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

**MAR-305** 

# RED RIVER MUD CO.

115 8th Street West Williston, North Dakota 58801 Phone 701-572-7857

-1							
	DATE_	8-13	198/	DEPTH 12/	0		
	API	STATE	COUNTY	WELL .	SI		
	WELL NO.	=					
TRACTOR				BIG NO			

	,		NO.					
OPERATOR		CONTRACTOR	RIAN .	RIG NO.				
ADDRESS TEXAS O'L LGAS	7.5.7	ADDRESS	BIAD	SPUD DATE				
BILL:Ngs	100	REPORT FOR M	I I I SECTION T	OWNSHIP, RANGE				
REPORT FOR MR.		BYRON		-28N-51E				
WELL NAME AND NO.	100000000000000000000000000000000000000	BLOCK NO.	COUNTY	STATE				
BUCKIES AFF		10	ROOSEUELT	Mani				
PRESENT ACTIVITY.* SURFACE	HOLE	OLUME (BBL)	PUMP SIZE × IN	ANNULAR VEL. (FT/MIN)				
PRESENT ACTIVITY SURFACE		300	54 414	OPPOSITE DP 197				
BIT SIZE (IN) NO INTERMEDIATE		CULATING 370	PUMP MAKE SHEED	OPPOSITE COLLAR 758				
DRILL PIPE SIZE TYPE PRODUCTION OR LINE	FT. IN STORAG		BBUSTROKE STROKE/MI	N CIRCULATING PRESSURE PSI				
DRILL COLLAR LENGTH MUD TYPE	of Garage	7 . 7-1	BBUMIN	BOTTOMS UP (MIN)				
SIZE 6 E SO9 ON WAT	1		18.0	TOTAL (MIN)				
SAMPLE FROMFLOWLINEPIT FLOWLINE TEMPERATUREOF	PROPERTIE	ES DAILY COS	CU	MULATIVE COST				
TIME SAMPLE TAKEN	3	11/10/11/15	MUO PROPERTIES SPEC	IFICATIONS				
DEPTH (FT)	1210	WEIGHT	VISCOSITY	FILTRATE				
WEIGHT □(PPG) □(LB./CU. FT)	10, 10	BY AUTHORIT	Y: OPERATOR'S WRITTEN OPERATOR'S REPRESENTATI	VE DORILLING CONTRACTOR				
MUD GRADIENT (PSI/FT)	W	34	CIMI ENATOR & REFRESENTALL	ie Livinen				
FUNNEL VISCOSITY (SEC./QT.) API ATOF		100						
PLASTIC VISCOSITY CP ATOF	A	DR.	IL OUT WI	TH CLERM				
YIELD POINT (LB/100 SQ. FT.)	7							
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN.	2	WA.	TEM.	ii				
PH C STRIP C METER	K							
FILTRATE API (MI./3b MIN)		CIA	CULNTE ASSEN	IX PIT.				
API HT-HP FILTRATE (ML/30 MIN.)								
CAKE THICKNESS 32nd IN. API' HT-HP		Mix	MIX LIME AND FLUC TO					
P-ALKALINITY (PF.) - & PM.			1. 1. 1					
METHYL ORANGE ALKALINITY		MAIN	MAINTAIN CLEAR WATER A					
SALT DP.P.M. CHLORIDE DP.P.M. DG.P.G.	1 12		- I'M WIN CHAIN DATEN AT					
CALCIUM DP.P.M. DGYP (PPB)	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	PUM	P GOCTION -					
SAND CONTENT (% BY VOL.)	T 7- 3%s 1		2021-01	*				
SOLIDS CONTENT (% BY VOL.)	9.5 	Maria III	eth a c	a first agent for the				
OIL CONTENT (% BY VOL.)	a a A A		5.44	1 4 7				
WATER CONTENT (% BY VOL.)	7 70 -1							
METHYLENE BLUE CAPACITY ☐(ml/ml mud) ☐(equiv. #/Bbl. bent.)	- I IC		A CALL	13				
to the second of	The state of the	-1/1		and the second				
	1	1-10						
Remarks and Recommendations:		- 1-p		MAR02-0306				
	44.4	24 A	1 - 1 - 1					
1 3	i i							
	. di sy	42						
		10 1	A = 1	1				
	and a	175	# /	1 Jana 17				
	* - 1 AV	eng. I		Navv				
	9 10 10 10	ALLEN COM A		1				
	0 -1 4 8/17	Company of the	A part of the part of	100000				
Kyn Vertal								

MAR-306

TELEPHONE

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TELEPHONE

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME

AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME

# RED RIVER MUD CO.

115 8th Street West Williston, North Dakota 58801 Phone 701-572-7857

					_	NO				
T	DATE	8-12		9 8	Lo	DEPTH 859				
141	API	STATE	СО	COUNTY		WELL				
	WELL NO.		V.,		75					
TRACTOR	.1			1	RIG	NO.	5			
RESS P	1				SPI	UD DAT	TE 1/-8	1		

REPORT

OPERATOR TOWN	oc Oil & Gas		CONTRACTOR	1		RIG NO.
ADDRESS R.II	1.		ADDRESS			SPUD DATE
REPORT FOR MR.	t Pres 19		REPORT FOR M	R. Hauson		WNSHIP, RANGE 28W - SIE
WELL NAME AND NO.	teles B = 1	FIELD OR B	LOCK NO.	COUNTY		STATE
OPERATION	CASING	MUD VO	DLUME (BBL)	1,020		ATION DATA
PRESENT ACTIVITY	SURFACE IN. at FT.	HOLE	PITS	1/	× IN XIY	ANNULAR VEL (FT/MIN) OPPOSITE DP 197
BIT SIZE (IN) NO	INTERMEDIATE IN. at FT.	TOTAL CIRC VOLUME	ULATING	PUMP MAKE		OPPOSITE COLLAR 358
DRILL PIPE SIZE TYPE	PRODUCTION OR LINE IN. at FT.	IN STORAGE		BBL/STROKE		CIRCULATING PRESSURE PSI
BIZE 644 1509	MODITE			BBL/MIN 8.0	10	SYSTEM TOTAL (MIN)
SAMPLE FROM FLOWLINE TEMPERATURE	FLOWLINE PIT	MUD PROPERTIES	DAILY COST	900	CUM	ULATIVE COST
TIME SAMPLE TAKEN		0800		MUD PRI	OPERTIES SPECIFI	CATIONS
DEPTH (FT)		859	WEIGHT	VIS	COSITY	FILTRATE
WEIGHT (PPG) (LB./CU	week 1	10.2	BY AUTHORIT			DORILLING CONTRACTOR
MUD GRADIENT (PSI/FT)		5304		OPERATOR'S	REPRESENTATIVE	DOTHER
FUNNEL VISCOSITY (SEC.)		70+		1 2 1	-3/ -3/	12 6 9 9
PLASTIC VISCOSITY CP AT	O <sub>F</sub>		Utc-	Mantan	40-4	15 Ux.
YIELD POINT (LB./100 SQ.	FT.)			Win Sa	17/m/ 1	Line if yer ded
GEL STRENGTH (LB/100 S	Q. FT.) 10 SEC./10 MIN.			1054 Cel	76 /5x	Lane
PH C STRIP C METER	- C					- Mileda E
FILTRATE API (MI./30 MIN)			WT.	trees 11)	Tuno	ver 10.1 with
API HT-HP FILTRATE (ML/3	0 MIN.)OF			Salt	1	The second
CAKE THICKNESS 32nd IN	. API HT-HP			T-F	+ 71.	water flow They
P-ALKALINITY (PF.) &	РМ			:::11		e Barite for The
METHYL ORANGE ALKALII	YTIV	1 1 2 2 3 3	1 - 1	are will	24	
SALT DP.P.M.	CHLORIDE DP.P.M.			Accessor	y wi	18 14111
CALCIUM DP.P.M. DGYF		179-129-	Water	1	1.0	X X X
SAND CONTENT (% BY VO	DL.)		104760	117 1	Maugh	word 10 legg
SOLIDS CONTENT (% BY	VOL.)		7	Wal a	40-43	and keep pit
OIL CONTENT (% BY VOL.	)			- Palifine	4	
WATER CONTENT (% BY V	(OL.)					
METHYLENE BLUE CAPAC	CITY (ml/ml mud) (1 (equiv. #/Bbl. bent.)					1

and Recommendations: MAR02-0307 7 E.

MAR-307

SERVICE ENGINEER

TELEPHONE

EXCHANGE

MOBILE SERVICE

WHSE, NO, AND LOCATION

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ELL	a	MAILING POINT	;	SHIPPING POINT		MOVEDD	ATE 8-1/-8/	6	DATE 8-11-8/ 19 _	-:
From Footage To	Hrs. on Wr. Drill Pipe (	Stands Singles DRILL No.	O.D. I.D. Leng	gth Air Wt. Sub. Wt. C.	B. Fr. Fr. up on Kelly	REMARKS	TIME START STOP	INTYL	Tour - Midnight - 8 a.m.	_ & ~
		COLLARS		Toble		P + 1 K +	A. 1 12'00		Specify actual pours worked	Her
B No. Size Type Jels	W.C. Serial No. Wgl. R.	P.M. Or Cared Hrs. Reamed	Hrs. No. Pressy	D S.F.M. Toble T.	8. G.	19 y derr ch	K. W.	0	Derrick A 1. Bactacs	10
A T								0	Un 9/1 106	0
s				Was a walking	Next Oil	(e)		+	LIAG ALECA	-8
	The same of the sa	Z a.m. 4 a.m. 6 a.m. PUMP	12 mn. 2 a.m. 4 a.m	MOTOR HOUR	Change	9	is to as	+	Ware Deard	8
- WEIGHT	No. 1 SURE	MODEL S.P.M.		2 211	*			-	Floor Gene Partnes	-12
GEL	LINER	SIZE	1	3 = 0	- A			-	p- + .	1 2
W.L. F.C.	pH. GENERAL		At Fee	Degrees 2 04		\				3 3
ADDITIVES:				weather O	Water	is a second			77	-
8				Temp.	Bois.	15.	· ×	1 3	Injuries:	
Drilling Size Anake 5	erial Na. Lines Trips Ton Mil		Cur At Miles	Stip or Cut Stip	Ft. Lett on Spool	a'			Fires	1 1
Record Footage To				8-1-81 500 gth Air WI. Sub. WI. C.	8. Ft. Ft. up an Kelly	0 + 0	RILLER'S SIGNATURE		Tour — 8 c.m. to 4 p.m.	1,10
	bi 000 lbs.)	COLLARS	64 7 2	Lys ·	0	Foint, Pase Davie	K 8.00	111	Specify actual hours worked	THE HE
	1000	L.P.M.: Drilled Hrs. Reamed	Hrs. Pumo Pum No. Pressi	ure S.P.M. Toble T.	8. G.	Rig Up To A	1111 4:00	18	Driller SAM SAGASER	2
								18	Derrick DAN HEE BLOCK	. 8
1 2						. 199			Molor CRAIG BLOCK	· 5
MUO 8 a.m. 10 a.m.	2 noon 2 p.m. PUMP 8 a.m.	10 a.m. 12 noon 2 p.m. PUMP	8 a.m. 10 a.m. 12 noc	on 2 a.m. MOTOR HOUR	S Next Oil Change				Floor SHANE LAWSON	8
WEIGHT	No. 1 Pecs-	No. 2 SUAL		1 8	250	# - # - # -			Floor JAY HALVERSO	77 5
M VISCOSITY	MODEL S.P.W.	MODEL E.F.W.		3 2/4	1	* **			Floor	
GEL   1.C.	pH. GENERAL:	1 1 1 2 1 2 1	SUR Al Fee	EVEYS A 2 /2		¥ ~			* 32 3 4 4	1 2
ADDITIVES				1 160	Water			1	Mechanic	
9 M	* * *		1 58	Weather Temp.	Bbls.			1	Injuries:	
Drilling Size Make	iarial No.   No.   Trips   Ton Mi	iles Total Miles Slip or	Cut - At Miles	Slip or Cut Slip	F1. Leff on Speci		1	1	Firess	
Record			100 100 100	G-16-81 577		* ×on	RIPERT SINGHATURE	-	Tour — 4 p.m. to Midnight	2.0
From Foolage	6 Hrs. on WI, Drill Pipe Softom (1000 lbs.)	Stands Singles DRILL No.			Kelly _	Rig up to Drill	1 4:00 7:00	3	Specify actual hours worked	He
No. Size Type Jel		R.P.M. Drilled Hrs Reamed	Hrs. Pump Pum No. Press	12 S.P.M. Toble T.	1 8. C.	Circ. + Mid up	7:00		Driller R: 11 Peterso	
No. Size Type Je	s/W.C. Serial No. Wal. 8	ar Carad Arts Addition		0 64		Change Out Wash	Pier	14	Derrick / A A	. 8
i i			/	2 - 1		* P 6 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	val 12:0	0.5	Motor M. M. I	1 8
4 5	8 p.m. 10 p.m. PUMP 4 p.m.	6 s.m. 8 p.m. 10 s.m. PUMP	4 p.m. 6 p.m. 8 p.m	n. 10 g.m. MOTOR HOUR	S Next Oil Change	tracking and		18	Floor P 1 Pl	- 8
M WEIGHT	No. ) *****	400 No. 2 SUST	300					1	Floor Tray Paterson	5
VISCOSITY	HOOEL S.P.M.	84 MODEL E.P.	58	2 714	1				Floor	
GEL T	DH. GENERAL	1 1 1 11	53 7 14	RVEYS 4 220	1	3 2			1	8
W.L. F.C.	DH. GENERALI	- tollest Pipe	Al fee	VEYS et Degrees 300 Weather	1,				-	1
N	(*)					101			Injuries:	
C H Drilling Site Make	Serial Na. No. Trios Ton M	Gles' Total Miles Sin as	C. At Miles	Date Next Slip or Cut Slip	Ft. Left on Spool		11	1	Fires	. 3
T Line Record Make		Taral Miles Slip or	Col	8-6-81 500		Rill	SERLER'S SIGNATURE		1	
B. O. P. Tested Elapsed Time	Pres- Packing & Seal Crown-s	e-matic Fuel on Hand 12.01 a.m.	99	CASING REPORT		EQUIPMENT CHANGES	TRANSF	ER =	Signalus MAN	100
Hydril Pins Pons	Rig S Chk	fuel Rec'd Today (add)	296	its.	·		1		SAFETY TALKS.	JAN
Pipe Rams.	Kelly	Cock	OTAL 90	1	PLUG DOWN	10 - 1.	TOTAL TOTAL		Subject:-	
		Equip.		IL CEMENT RETURNS - IYES		GENERAL: — COAL ON HAND TONS	TOTAL COMPANY TIME HRS. TIME	-HRS.	34.504.654.6	
DRILL	ASSIFICATION DOIS	Fr. Drilled Total Fr.	CALIFER DATE		M PIPE RACK	· · · · · · · · · · · · · · · · · · ·	Approved by Operator's			
PIPE Size Jaint 2	3 4 TOTAL Sonos						Representative		Weathers MAR-308	
		2003 64	100	1	-		Approved by			
				( the state of the	1	10	Toolpushelly 101 Allen	200	Road Conditions	1

BIRD OI	IL EQUIPME	NI LID.(	DRILLING DIVISI	ION) DAIL	SHIP	PING	LOCATIO	MILES	LSD.	_ SEC	_TWP	RGEW	RIG NO.
WELL TONS TO		The Alm No.   Stee	POINT	1 [6]	POIN		- 11 Fr wa se	MOVED	DATE	14	_196_S/		15
T from	Factors To Hrs. o		Singles DRIL	ARS 0.0	D. I.D. Length	Air Wr. See Wr. C	8 Ft. Ft. va on Kelly	REMARKS			M E 510+ INTV		Midnight - 8 a.
0 0	059 859 23	420		16 69	77 509 88		3	0 1 3		1. J. J. 1.	1	Specify actua	al hours worked
	ize Type Sele/W.C. Selial		01 00100	Reamed Hry	77 505 88 Pundo Plano No. Pressure	S.F.M. Torque I	8. G.	Rig Serv	4 77	12:00 1	7:15 3	- Driller Sieve	RACTURES
1/A/2	4 HIC 3. 22 Rt	15 200	859 23		1 200			Ohill Surface A	ole x	12'15 8	do 75	Derrick Das a la	4 100
M T	1		1		2 000				5urvey			Molor D	01 11
D 5					1		Next Oil				8	6000	HOCK
N MUD						The same of the sa	Change		"A			Floor Brace	Repro
WEIGHT	99 94 99 101	No. 1 100 /000 71	400400 H	io. Z sure Cott	200 1018	1/8	250		1			Floor Scatt	-Wack
. AI2CO211A	32 34 37 43	108 1 1. 1 30 3	2 64 64 3	2014 80 - 55	61-1	2222	11	T .			7	Floor	the state of the s
T CONTROLL		350 1111 5	16 14	1000 1111 5	3,14 5112454	201		1	1171131		1		
with a	F.C. pH. +	GENERAL:			Al Feet D	1 0		F 1			1		
	5-Ge/-35 .	Line -/			-	9 5 168	Turan are	1		-			
	Sc1+-43	1				Weather	Water					Injuries	-
	Cedor Fiber -1	6			1 2	Date Nest	8514	Rith Lik-Fill D					~
Dyilling Size	Make Serial No. 15	ines Trips Ton Miles	Total Miles S	Slip of Cut		Date Nest Slip	on Spool	201100 11011				Fires	
Record 14)		900	2	1 10		381 520		BAIK trank & SAL	BRURSSIEMATURE!	-			
4.2	foologe To His. 4	(1000 lbs.)	UKI		O. I.D. Length	Air WI. S. 6. WI. C	Kelly	P. K. IN SULLOW		5:00 B	1- 5:		- 8 о.m. lo 4 р.н
8 8/9	351 1210 33	141 415 7	COLL	16 62	122/098	/ 3	124	Mig Dervice Success			10	Specify actua	al hours worked
2 0 m	Size Type Jets/W.C. Seria	7 70	Drilled Hrs.	Reomed Hrs.	I Bumal Fuma	S.P.M. Table T.	4 G.	THIP BIT		8:15 9	100 00/4	Driller Same	SAGASE
1 - 2 + 1		T 15 200			142600		19 7	WAS SEE BE	-	9:00 10	35	Detrick A	*
1 100	1. U+0 3-19 myn	99 20 300	3-133		1 4/00	2-1	- 10 T	Will DUTTECE DI		F 10	100	- Dernice DANL	EE
2 /// /0	1 HTC 3 18 MIL	87 00 000	100 1000		1700	-/		Trip In Hole		15/15/	1:00/	Motor SCOTT	HASKIK
MUD	8 a.m. 10 a.m. 12 neen 2 p.m.	PUMP 8 0.m. 10 :	s.m. 13 noon 2 p.m.	PUMP Bom	10 o.m. 12 noon 2	MOTOR HOUR	S Neat Oil Chonge	CICCULATE VIALE	*	11:00 /	111- 12	Floor SHANE	
8 WEIGHT	11110-02 101	No. 1 3000 4/00 TO	1100 1106 F	No. 2 **ES.		1 26	250	CITCUIDIC HOTE			- /		
M VISCOSITY	10.1 10.310.3 10.1	MODEL 1	10 6/ 1/1 M	OOEL S.P.W.	1, =	2 240	100	Drla		11:15 3	100 331	Floor TAY H	ALVERSO
GEL	45 40 37 51	1000 GE/	16/6/1	Linto -	Der	3 2 2	1	CIRCULATE .	1.2	3'00 3	1:15 4	Floor	51
J w.L.	F.C. pH.	GENERAL:	16	1 8155 ]	SURVEY Alfeet De	336	1		20		115		1-1
A ADDITIVES					1 850 1	0 5 176		Drop Survey, Trip O	4TF	3:15		- Contracte	
				1		2 Weather	Water	Short	- Irm	4	100 3/4	Mechanic	
M del	ime 1	Ye.	7.4	1	11010	Temp,	- Bbls.		11/3			Injuries:	
Drilling Sie	Make Serial No.	Na. Trips Ton Miles	Total Miles	Silp of Cul	At Miles Si	Date Nest	ft. Left on Speal		1		-4	Fires	
Record J'W		8 0	0 1	1		10-81 500	1 172	don	Chilles SHARES		10	Towns or a second	
	Footage Ta Hrs	an   WI. Drill Pipe   Sion	de Singles (ORI	ILL No. O.	D. I.D. Length		.8. Fr. Fr. up on Kelly	0-11 "-1+"	11	stran 1	11- 1-	Tour —	4 p.m. le Midnig
TOUR Nend 5		m [1000 103.4	COLL			***   5 G.	95.07	O.L.H light.	<i>U</i>	4:00 5	:15 /2	Specify octor	al hours worked
R	1 1 30 1 2	1.2	Drilled I		Pump Fump	Table +	1.10	N		5:15/	·10 3	1 200 11	0+
None: 3	Size Type Jelh/W.C. Seria	al No. Wgt. R.F.M	or Cored Hrs.	- Reamed Hrs.	Pump Pump No. Pressure	S.F.M. Table 1.	8, C.	1 7 1 - 1	1	1	00 7	Suller 1911	relet
				AT Y	1			TriPout OF	holei	600 7	00 1	- Derrick / a w 7	- Aa
3 5				-	1			A Carina		700 9	00 2	Hologa . K 5/5	14.11
The same of the sa		-		-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WOZOG WOU	Neat Oil	Man carring.				100	mela
- 1	4 p.m. '6 p.m. 8 p.m. 10 p.m.			AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 1	. 6 p.m. 8 p.m. 10	p.m. MOTOR HOUR	S. Neat Oil Change	F.C.		-	-	Floor L. B	1000
WEIGHT		No. 1 suse		No. 2 SUAT	+++	-		The Care has		900 9	30 2	Floor/roy/	tors
VISCOSITY		HOUTE S.P. d.	M	100EL 1 F. M.		2	-				-	Floor	210
GEL		\$100 E		5/11	SURVEY	5		coment Csq		9:30 /	173/4		- 52
- W.L.	F.C. AM	GENERAL. +	1-		At Feet   D	egrees 4		2:11100		10451	2001/2	1	
D ADDITIVES.	*					1	Tweler .	3 00,00			1		
<b>^</b>						Weather	Waler	3				Injuries: 3	
G		W 1		Feet. 3		Date   Nest	Shire.	Strategic Contraction of the Con		~			
Line Site	Make Serial No.	No. Trips Tan Miles	Tordi Miles	Slip ar con	Al Miles St	Date Next	se Socal					Firest	
Record	Service   Press   Po	Vice & Seal   Jensey	1				97	EQUIPMENT CHANGES	DRILLER'S SIGNATURE		- VANTEE -		11
B, O. F. Taxled	a Time ture int	cking & Seal Cra-a-a-mail	Fuel on Hand T	2.01 a.m.	9011.	CASING REPORT	AN ) /0	ITS & CSG			RANSFER =	Tooipush	will!
Hydril		Rig Severs	fuel Rec'd Toda	(Shel ye	Torke gale,	1140		198 m 1 m				Signatures Market	House
Fipe Rome.		Chk'd.		TOTAL	1 3aois. 10	7 x a. US	ED SA	76000 10 10 19 0000				SAFETY TACKS:-	25.00
Blind Rams.	1	Chk'd.		11.39 p.m. (deduct)	gale, p	US/00 WS	PLUG	A.M. COAL ON HAND TONS	TOTAL	TOTAL		Subjection	
TOTCO RING ON BIT	T # Boiler Operaled:	Hrs. Fire Equip.			. [	MENT RETURNS - IVES		GENERAL:	TIME HES.	TOTAL CONTRACTOR	S H#:		MAR-
- 1	CLASSIFICATION			11.9	Ve.	WEST RETURNS	, NO	OLIVERACE.	Approved by			,	MIMIL
DRILL PIPE Size		TOTAL Sonose		Drilled CAL	IPER DATE R	SULTS FROM	H PIPE RACK		Operator's		The section		
FIFE					-12-			2	Representative		34.5	Weather	20.00
7													
							7		Approved by	nin	11	Rood Conditions	MAR

From	faelage	Te		Hrs. on	(1000 I		5.0	gies   t	RILL No.	. 0.0	). 1,D.	Length	Air Wr	. Sub. W	C.B. F	FI up on Kelly		REMARKS	5			TIME		To	our - Midnight - 8 a.m.
0 =				Battem	110001			- co	LLARS			1						01		7	19412	5100	IMINE.	Specify	y actual hours worked
U No.	Size T	pe Jets	/w.c.	Serial No.	Wel	R.P. N	Drille or Co	ed Hrs	. Reomed	Hes-	Pump No.	Pressure	5.F.M.	Toble	T.	t. G.	WO.C.	clean	Mad	tanks	12:00		-	Driller Stew	c Bartnes
M							-	-	-	+	-		0.0		-		Comppe	out:	of To	65	-		-	Derrick Aw	ght lee
1 s	- 12	+	-			_				+						= = =	Workons	sumps	+ Sh	Ken				Major C.a!	& Black
N MUD	12 ma.	2 0.0.	L a.m. * 4	g.m. P	UMP	12 mm. 2 s	.m. 4 a.m	à a.m.	PUMP	12 mm	7 o.m.	4 o.m.	à a.m.	MOTOR H	OURS	Change	Change of	u+ 5	Kella	Hose				Floor Rene	le Beard
WEIGHT					1 3441		1	1	No. 7 50%	ć .	100		1	49		250	1. 11.	21	nicher	,,,,,		800	8	Floor Stat	T Haskins -
H VISCOSIT				MO	LINES SIE		-	+	HOOEL S.P.				1 2	-	0	-	Vg cert		1		1		5	Floor	
T . GEL	F.C.		pH.	GE		Thans	B	/ t	Fuel	C	140	SURVE	YS A	48	-	1 15	-	7.			-		-2-		
ADDITIVES			-7	1	_		1:0	100	+ 1.0	lit	120	Arree	5	192		1		<i>'</i>			1	-	-		\$
9 2					1	Ant	1 10	7	/	,	1					Water					-			(njuries:	5 8
A Dullian La			1 3	No. Lines	Trips		. Total	45 L	Feet		AI MI	ner T	Date Slip or Cut	emp.	lext Slip	Fr. Left an Spaol	124		-	1				Fires:	6 + 7
M line /			erial No.	Lines	269		1.	0	Slip or	Cut	Al Mi			50		en Speel			Here	But				1111111	2
T From	Foolage	10		Hu. on Soltom	WI. Drill (1000 I	Pipe Sta	di Sir		11100	. 0.0	1.0.			. Sub. W		F1. up on Kelly	Was Wiell	hand :	O-DEILLE	K-3 SIGNATURE	Rim	9:30	1-	.1	our — 8 o.m. to 4 p.m.
ů ·		121	0	V				C	LLARS				1		4	100	_		2.4				12		y actual hours worked -
. Ho.	Size T	pe Jeli	/w.c.	Serial No.	. Wel	R.7.8	Dritte or Co	ed Hrs	. Reamed	Hrs.	Pump No.	Pressure	S.P.M.	Table Torque	, Т.	5. G.	CUT Case,	/		ON_	9:30		-	Driller SA	n SAGASER
			_	7	+	-		-	-	-	+		1		-	-	WELL	HEAT	1	1	-	2:30	5	Derrick AAT	
5	-	-		1	1	1002	1	-	74	1		-	1		-		Nipple Up	3,0.P			2:30	41:00	15		+ HASKIN
MUD	1 1 a.m.	10 o.m. 1	2 noon 2	p.m. (	UMP	8 o.m. 10	a.m. 12 nos	2 p.m.	PUMP	6 a.m.	10 a.m.	12_noon	2 p,m	MOTOR H	OURS	Next Oil Chonge							11		NE LAWSON
A WEIGHT	19 1000		7.1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				No. 7 5465			3	· 1	57		250							8		HALVERSO
M SVISCOSITY		- 16	1	MO	DEL 2. P. H.	1		-	MODEL S.P.		+-1	74	2		2.05=	-						1		Floor	
O West.	-F.C.	-	pH.	GE	NERAL:		- 000	+ 11	er B		day I	SUPVE	V5 Degrees	- 18	8	/	-					1			
4 ADDITIVES						5104	11	Pun	0	4,,,,,,	4-01		5		ZOFA	1				_	-			Mechanic	
P	news.								1		-			Wedther		Water					-	-	-	Injuries:	
Drilling Si	. Mak	5	erial No.	No.	- Trips	"Ton Miles	Tatel /	Miles	Stip or	Cut	ALM	iles	Date Slip or Cu		les!	ft, Left on Spool			/	1-	1 4			Firest	
Record /	& Wall	24.7		8	6			0	1			X	-6-8	1 52	20				Ac mit	ASSEKAAR	1			1	
1 70	HO	2 '		Bottom	11000		di Sir		DRILL No	. 0.0		1 0 00		t. Sub. W	t. C.B. F	FI, UD ON Kelly	Nionle 110	B.D. F	2 .	,0	4:00	8:00	4		ur — 4 p.m. to Midnight
1 /29	-	16	121	2	THE !	8/	/ /		11	6		1499		Labla		0	PILL	1 "1:	200 PS	71) 1	10	8:30	1	Specif	ly actual hours worked
No.	_	ne Jet		Serial Ne		1 133		red Hrs	Reamed	-	Pump No.	Fressule	14		T.	8. G.	CTU /	t. 01	1	-		9:15	1 -	onner Bil	1 Peterso
1	1751	15 3-	16	108014		70 200			-	-	1		69				0.11.01	71	9)		-	1	7	Derrick C/a	
4 5	4.					- 155								1			Drill Pla	9			19:15	10:00	1 -4	Motor Mor	kis Melan
P MUD	4 p.m.	ò p.m.	8 p.m. 1		UMP	4 9.m. 5	a.m. 8 a.w		PUMP		4 a.m.	8 p.m.	10 c.m.	MOTOR	-	Change	Dr/9				10:00	12:00	2	Floor Paul	Bloms
T VISCOSIT	0:	- 1/	6/0		DEL S. F. M.		-		MODEL L.		10	1	- 1	5		250							18	Floor Tra	x Petarso
O GEL	11//	W	9/9		SILC.	54	* 14	67	1/×1					1 4 6		(-	~~~							floor	
W.L.	1,0		sH.	- 68	ENERAL!	Change	0.		Line.	0	n	SU 2 V S	Degrees •	16		1	- V	10.8							
ADDITIVES.	1-101				Oile	Sid	JRO	10,2	horse	_	-		_	Weather	2	Water						11			
Ž.	Lima	-/-	_	_							-		-	Temp.	10-	abi:			-		+			Injuries	
H Drilling Si	e Mok		erial No.	Ne.	Trips	Ion Miles	Toroi	Miles	Slip or	Cor	AI M	iles	Slip or Cu	1 1	Siz-	Ft. Left on Socol			1-116	/	-			Fires:	
Record			Pret-	8	0	0	0		- ;		1		0.00	11 5	THE R. L.	- 4	FOUIENE	NT CHANGES	SUDTILLE	S SIGNATURE		TRANSFE	=	Toolpush /	11
B, O, P. Te	sted Ti		sure	Inspecti	& Seat ed Date	Cht'd.			d 12,01 a.m.	-		2011	CASIN	G REPORT	RAN	- A	its csc Kell	Hose	-	ida				Signature	mm Van
Pipa Rams.						Rig Saver	1	uel Rec'd I	odoy (odd)	DIAL		goli.	.70	×	8. USED	- SA	CEMO TINE	y 3 3	10/63	1985 E	Pump	7 1		SAFETY TALKS:-	-
Blind Rams.						Chi'd.		uel on Hon	d 11.59 s.m.			galt	PIUS	2		PLUG	F.M. COAL ON	HAND Z	TONS TOTAL	1) 8 val	TOTAL	seat:	5	Subjects	×
TOTCO RING ON	\$17 #	. Boil	er rated:		Hex-	Fire Equip		-FUEL USI		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_		RETURNS .	(YES / NO		GENERAL:	2.1	TIME	PANT	CONTRAC TIME	TORS	HES.		1000000
DRILL Siz	laint	CLA	SSIFICATI	ON	TOTAL	Date	Fr. Drif		Total FI.	TAI	PER DATE		RESULTS	100	FROM PIF	E 2104				roved by				No.	MAR-3
PIPE. SIZ	79(8)	. 2	3	4		-Sonaic	lince So	nosc	Dritted	201	The Motion	-	KE30113	-						esentative	W 9			Weather:-	
									4							-			App	roved by		01			MAR0

BIRD OIL EQUIPMEN I LID. (DRILLING DIVISION) DAILY DE	SHIPPING		MILES MOVED	DATE SECTION	TWP	. 61	RIG NO
Delitery 11000 Miles	I.D. Length FAir WI. Sub. WI.			0.7	7 I M E	6 21	DATE 8-14
0 17.12 13/5 2581 ( 5 58 25 1, COLLARS // V = 75	2, 499	Kelly	REMARKS	\$1A2		INTYL	Tour — Midnight
	no Pump   S.P.M. Table   Torque	T. 8. C.	Ris Car		1 130.0	- =	Specify actual hours we
1/ 2/4 505 3-16 20 8014 20 200 1300 43 1	1 1.00 1:4		1/11/200	100	12:15	-	Driller Stove Rock
	109 01		HA-11	12'15	1'00	3	Derrick A
D 3			Sarvey ( 1400)	1500	1111	1	Motor of 1
N MUD 12 mn. 2 a.m. 4 a.m. 6 a.m. PUMP 12 mn. 2 a.m. 4 a.m. 6 a.m. PUMP 12 mn. 2 a.	m. 4 a.m. 6 a.m. MOTOR HO	Next Oil Change	1 11/1	1.00	13	7,	Brag Blace
WEIGHT / No. 1 SUREY O 0 / 20 KILO (50 No. 2 SURE /)	F. 166	250	Pollo	115	430	37	Floor Bixel Reals
H VISCOSITY W ATCH MODEL S.P. JULY GDY CILL S.P. TOL	2 0		Suivey @ 2328.	43	2 4/45	- +	Floor
T GEL STEE 5-3 4 SALE 5 5	114 3 1724	1	1 1. W		04.	1	Floor tack VI
T W.L. F.C. SH. GENERAL	Al Feet Degrees 4 24		V/ II	7.45	800	34	THEA FULW
O ADDITIVES: Lime - 6	1820 12/5 24	0				10	516.90
8 Flac - 2	2328 16 Weather	Water				8	10° 5°
A Drilling Size Make Serial No. No. Trips Ton Miles Total Miles Feet	Temp.	Shis.	P 11 - 1 - 11		+ -		(njuries:
Line Sin or Cut A	At Miles Slip or Cut Slip	ft. Leff on Speal	DOTTOM /ank- Full Af	1			ri y
Recard / J. M. S. O. Wt. Drill Pipe Stands Singles No. C.O. L.	84-81 300		Back To K- 4Ft Sto	w. Krok			Fires:
O 0.4 0.4 5 7 Settam (1000 lbs.) DRILL No. 0.0. 1.	D. Length Air Wt. Sub. Wt.	C.B. Ft. Ft. upion.	5	WILLIAM STONATURE	III G. N	1	Jour 6
2751 501 3485 421 68 31 1 16 64 7	4 499	25	actual @ 4281 462	ex U FOP GO	8:15	74	Tour — 8 a.m. to
No Size Type Jets/W.C. Seriol No. Wat. R.P.M. Or Good Hrs. Reamed Hrs. No.		T. B. G.	1 rla	21	- 100	+71	. Specify actual hours wa
1 7718 805 3-16 B18014 25-30 200 2275 13	900 64		1 - 0 - 1	0.15	10,45	5 3	Driller SAM SAGASA
	107		Scruey & 3356 Wo	18 01V 104	1	-	Derrick AAN I FF
		this is not	Mump Pall 15Th 100	Axwel 13	2 0		Moles
8 MUD Sa.m., 10 a.m. 12 noon 2 p.m. PUMP Sa.m. 10 a.m. 12 noon 2 p.m. PUMP Sa.m. 10 a.m.	m. 12 noon 2 p.m MOTOR HO	URS Neat Oil Change	Television A A	1	110	- 1	SCOTT HASK
M WEIGHT D' PT TO NO. 1 SUITE SO TO NO. 2 SUITE  M WISCOSITY TT WG MODEL E. M. LELL WAS TO LOUIS NOOEL E. M. TO	741	2-2	WAShed U.F.		1100	27	Floor SHANE LAWS
	LE 2 16	350	Drla -	lint	2:00	1	Floor TAY HAZUERS
T GEL GTER TER UIT SIZE GTER XIV	3 /72	1 -	Paris Para	1 20		100	Floor Jan St.
W.L. F.C. OH. GENERAL.	A) Feet Degrees 4 32	.   /	HEPAN MOTHEY Chain	2.00	10	11/1	31.00.21
2 ADDITIVES / 1 MAD - 2 G-21 - 75	2021/95 5 208	L	Dr/9	1 241	3:30	3/4	- A
Staach -17	23 5% 1/4 0 Wearner	Water	Aron Suine Tino	TBIT # 1 3:30	1	1	Mechanic
Drilling Size Make Serial No. No. Trips Ton Miles Total Miles Feet	3485 10 Temp.	Bbls.	the day have the	1 0.00	4:00	2	Injuries:
Drilling Size Make Serial No. No. Trips Ton Miles Total Miles Slip of Cut in At Record 44 UNICE!	Miles Slip or Cut Slip				-	101	Fire
Francis Control of the Control of th	18-6-81 500		Sou	MURRENCE V	1 1	D	Fires:
O Softon House In.	D. Length Air Wt. Sub. Wt.	C.B. Ft. Ft. up on Kelly	CAH	WILLEK S SIGNATURE	0	,	Tour - 4 p.m. 10 M
1664	4 477 - 8.38	- 0	64 -1 -1 -1	1 4.00	15:00	1	
No. Size Type Jets/W.C. Serial No. Wat. R.F.M. Drilled Hrs. Reamed Hrs. Pump or Cored Hrs. Reamed Hrs. No.		T. 8. C.	Pat on Shock Suh	5:01	5:30	=	Specify actual hours won
2 74 505 3-15 BC7562 25/30 150 252 5 - 1	1 64 R	14 h	GT H	. \$		1	Driller Bill Pet
S S	1		11 1 1 1 1 1 1	5:30	6:30	/	Derrick Clayton A
· VIII.	* 1		Wash to bot to	C. 0 130	7:00	当	Motor no
W total and the control of the contr	. Sp.m. 10 p.m. MOTOR HOL	URS Next Oil	0-13	1 1 1 1 1 1	1	-	Floor O T
	900 1 82		98	7:00	12:00		Paul Blos
O SEL 30 3/ MODEL S.A. 1 64 MODEL S.A. 58	58 2 74		11	7.		8	Floor Tot Pate
M W.L GENERALI	x 14 3 .130		( )	,			Floor
	Al Feet Degrees 4 40	1	149				
N S-Ge/-42 Dfros -1	3216						
Starch - 35 F-6-1-3	Weather	Waler					
G Bint - 1 - 1  H Drilling Size Make - Serial No. No. Trips Ton Miles Tolet Miles (ee)	Temp.	Shir.				-	Injuries:
Line Line Slip or Cul At-	Miles Slip or Cut Slip	Ft. Left on Speci	1 1 2 2 2	21	-		Fires:
B. O. P. Tested Elapsed Pres- Packing & Seal Crawn-a-matic	8-6-81 500		Bill	Relocon	1 2		7.974
Hydril	galt. CASING REPORT	RAN IS IS	EQUIPMENT CHANGES	MILER S GIGNATURE	TRANSEER	=	Toolpush /
Fice Rome. Ris Savers   Fuel Rec'd Today (and)	gels.		'S - 'CSC - K-#				Signalush in My A
Blind Rame. ~ Kelly Cock TOTAL	9011 TO K8. US		CEM				11000 11100 C
Chi'd. Feel on Hand 11.39 p.m. (deduct)	goli. PLUS m	PLUG DOWN	P.M. COAL ON HAND TONS	TOTAL Total	1.		SAFETY HIKS:-
TOTCO RING ON BIT # - Operated: His. Fire Equip. Chi.d. FUEL, USED	BOIL CEMENT RETURNS - ITES		F.M. COAL ON HAND TONS	COMPANY CONTRAC	TOR'S		Subject:-
DRILL Size Joint CLASSIFICATION TOTAL Date Et. Drilled Total FL						HRS.	MAD
PIPE 310 Joint 2 3 4 TOTAL Sonoic since Sonoic Drilled CALIFER DATE	E RESULTS FRO	OM PIPE RACK		Approved by Operator's			MAR-
		- 1		tepresentative			
	1			pproved by	11	-	Weatheri-
			- 1	oolpusheck	/11/		ood Candillan MA

U No. Si	247 3984 24	Wt. Drill Fipe Stands Singles DRILL No.	M POINT F	-	MOVED 1	DATE ST 8-	( )	_196 81	DATE 8-15
U No. 5		Wt. Drill Pipe Stands Singles DRILL No.		22 1 1 1			_		
U No. Si	247 3984 77	(1000 161.)	O.D. I.D. TLENGTH AIR WI. Sub, Wr.	C.B. FI. FI. va on Celly	REMARKS			STOP INT	VL. Tour — Midnight . I
R 1 2 7		10 36	67 27-199	7	1. 11		121	7	Specify actual hours worky
M ;	Size Type Jets/W.C. Serial No.	1700-1-1700-		T. 8, G.	Dr.II			2-16 3	Driller Steve SA
1 5	18505 3-16 BC756	225 250 499 123 -	- 1 800 14		Rig Selv		1346	100 7	Derrick Dw 46+ 10
		,	1		Dr. 11		1'00 5	00 7	Motor Onde Plan
N MUD	12 mm. 2 a.m. 4 a.m. 6 a.m. P	UMP 12 mg 2 2 a.m. 4 a.m. 6 a.m. PUMP	12 mm. 2 a.m. 4 a.m. 6 a.m. MOTOR HOL	IRS Next Dil			1	10	Floor Branch D
WEIGHT	9.9 9.9 10 10 No	1 100 800 800 god 400 No. 2 100	# DI E 1 50	250	1				Floor Tark El
	33 33 34 34 34 00	3 11. 64 64 64 64 900 11.	2 32			,			Floor
GEL GEL	16 15 14 15 55	D 111 52 x 16 1400 111	SURVEYS 1.38						
T ADDITIVES.	5-Ge/-//	- I-	At Feet Degrees 7 78	1/1-	= -				1 1
0	Starch-7	th	Weather	Worer	Bank took 5 2	**	(1)		
8 ~	Salt - 10		Jamp.	Sbis.	9-T 1- 4 E/1	1			Injuries
A Drilling Size	Make Serial No. Lines			on Spool	Simo Tanh Full	a nx			Firest
Record 1 4		WI. Drill Fine Stands Singles Paul No.	0.0. 1.0. Length Air Ws. Sub. Ws.		desander & his	TREMIED STRANTORE			
T. 7 BL-01	Softom	11000 (b).		5. 5, Kelly	RIG Serv V BOP	1	8:00 8	15 4	Tour — 8 a.m., to 4
3989	46 4035 4	80 36 2 COLLARS 19	64 24 590 Table	14	Para Survey Trip	04.7 BIT #2	8:15 9	11/11	Specify actual hours work
- I I - V	5120 Type John/W.C. Serial No. 17/8 584F 3-15 76880		Hrs. Pump Pump S.P.M. Table Torque	8. 3 5. 4				,-	SAM SAGASA
	178 0077 3-13 16000	1633003 376 1	1 30 01	15/		ble BIT#3			Derrick DAN LEE
5	willier to the same	7.		- /	wast to Bottom		11:45-1	2:00 4	Motor SCOTT HASKIN
R MUD		PUMP 3 s.m. 10 c.m. 12 noch 2 s.m. PUMP		4 2004	Drla		12'00 L	1:00 4	
A WEIGHT	P. 14 /04/40	0. 1 1 1011 = 2 D 750 No. 7 1016		250	~			+=	Floor JAY HALVERS
M =xuscosity		DEL S. T. T. LINES SIZE SIZE		1				0	Floor
GEL GEL	F.C. pH.   GE	ENERAL Clean 2 nd Sector	SURVEYS 1 146	1/	1,	10	79.		
ADDITIVES,	STAR H-10		3985 10 5 232	1	1	600			Mechanic
P	CHROMATE - 1		Wegiher	O. William		see fan.			Injuries
M	F.G.FL - 1	*	Date Nest		Desander - 4 Ars	1			infanes:
Line Size	Lines.	Trios Too Miles Total Miles Stip or	Cut At Miles Slip of Cut : Slip  8-6-81 500	en Speal	2 de la companya della companya dell	e de maria			Fires:
From	Footage Ta Hrs. on	Wt. Drill Pipe Stands Singles Days No.		C.S. Fr. Fr. up on	21	EBRITLER'S STORKATORE		1120	Tour — 4 p.m. 10 Mic
Q #035	157 4197 73	1 83 39 - COLLARS 19	5.5.	14	Write of	0 -	4:00	1.30 -	Specify actual hours work
. E No. 1	Size Type July Serial No	6 Dellied	HILL Pump Pump S.P.M. Toble	T. 8. G.	V Rig		430 4	:45 -	U Della D:11 D +
	178 584F 3-15 76880		1 800 64 R	un I	10 P/a	-	4451	2'007	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
1							7 7		2 Clayton A
4 5			200		** N		1	-13	Motor Marxis M
		PUMP 4 s.m. 6 s.m. 8 s.m. 10 s.m. PUMP		Chunge	*				Floor Paul Ble-
WEIGHT		10. 1 144 750 750 800 800 No. 2 5001		250		-			. Floor Than Pate
100			1.01		· 1.	- /			Floor
M was ?	F.C. pH. G	ENERAL Cooned 1 Tark.	SURVEYS At Feet Degraes 4 64		120-11	1		-11	
D ADDITIVES	Starch-20		5 240	1				-	
	5-17-10		Weather	Water.				_	Injuries:
G - Drilling Size	Bir to 2 1	Trias Ton Miles Tatal Miles Slip or		Fr. Left on Spool					Fires:
I line To	Mnion 18	12 1128 :	0	au 38691	Ass. 8 hp. B.	Melan	P	- 1 5	
B.O.P. Tester	ed Elapted Pres- Packing	ed Date Crown-a-moric Fuel on Hand 17.01 a.m.	gale. CASING REPORT	RAN	EQUIPMENT CHANGES	HAILLER & SIGNATURE		RANSFER =	Toolpush 1 1 M
Hydril	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Big Saver: Fuel Rec'd Today (add)	- gols /	100	irs ( cso				- Signalung South Ho
Fipe Rams.		Kelly Cock	OTAL gell to- KR.						SAFETY TOLKS -
	Soiter	Fire Eaving		PLUG	P.M. COAL ON HAND	COMPANY	CONTRACTOR	3	Subjective
TOTCO RING ON SI	Dpergled:	Hrt. Che'd. FUEL USED	gali, CEMENT RETURNS - LYE	SINO	GENERAL: -	TIME HES	II.ME	HR	MAR-
DRILL PIPE Sist	Joint 2 2 4	TOTAL Sanosc since Sanosc Total Ft.		OM PIPE BACK	Y	Approved by Operator's			
					De serge,	Representative		7	Weatherin

DIRECTIONS TO			MAILING POINT	-	POINT			MILES	×-	DATE 8 -	16	196	81	DATE_8-	16
From foologe	To Hrs. on Wi. Del Softom 11000	ill Pipe Stands	Singles DRILL N	o. 0.0.	Dr. Length Air Wt	. Sub. Wt. C.B.	Ft. Ft. up on Kelly		REMAR	KS.	START	T I M E	INTYL		- Midnight -
04192108	4300 /all 4		COLLARS	1 6/4 2	14 590 -		0	0.0		A =			5.7	Specify ac	lual hours work
2 2			Drilled Hrs. Reamer		Pressure S.P.M.	Toble T.	8. G.	Will			12,60	12:45	74	Driller Doug	Paters
1 3 77/5 584	3/15 768809 3	0 60	316 18	17	850 64			W Rig			12.45	1:00	14	Derrick Lundo	n Hang
I s			3				-	Drill			1:00	6:30	5%	Motor Carin	Petro
N MUD 12 mg. 2	.m. 4 a.m. 6 a.m. PUMP	12 mm, 2 s.m. 4	a.m. 6 a.m. PUM	12 ma. 2 o.s	4 a.m. 10 a.m.	MOTOR HOURS	Next Dil Change	Tris out	a stanta	+ channe	6:30	8:00	1/5	Floor Rober	+ -1 1
	5 10.5 105 NAS SUE				16	114	250	+	1 3/4/10	inaligate	1000	1		Floor Leon 1	Denie
	32 32 05	GH 64		- 10	13	56	-	011 0	vashpy	oe .			4	Floor	BAIT
T GEL 18	2 19 18			11	SURVEYS AFFeet Degrees	162				1	-		0		
ADDITIVES		Jenned sur	ction Tenk		Al Feel Degrees 5	348	Y							•	
O STATES	Chromple			-	B . W	Veather 4	Water	4' %"	Ruh Tank		1 1		-		
	•				4 1	emp.	8514	041 0	-1 080	)				Injuries	
A Drilling Size Moke	Serial No. No. Trips	Ton Miles To	otal Miles Slip o	er Cut A	Miles Slip or Cut		FI. Left on Spool	Gram to	t fund	0	-		-	Fires	
Tecord Y 11 this	1 47		28		2/6/8			Des Shr	5	DAILLER SESTONATO	RE		-		
From footage	Bettom (1000	Olbi.)	Singles DRILL S	io. 0.0. 1.	1	. 30b. Wr.	Kelly	G.TH.			18:00		-		— 8 a.m. to
14300 130	4430 7 8		2	9/42	1590 -	Table	26	Wash be	++ +	1 8		9:00	1		tual hours wo
No. Site Type			Drilled Hrs. Reame	d Hrs. No.		Torque T.	8. 3 G,	11/05/	0 001	(LBOP)	D.	1		Driller Bill	Pete
	3-15 768809 3	0 60 4	46 25 -	+ /	850 64	R	n	Drig	BOP)	1-0-0	17.00	4:00	1	Berrick Clayto	n Ans
s	1 20074		1176						Ī	\$			8	Motor Marri	m
MUD 1 6.m. 11	o.m. 12 neen 2 p.m. PUMP	5 s.m. 10 s.m. 12	2 noon 2 g.m. PUM	£ a.m. 10 a.	m. 12 noon 2;p.m.	MOTOR HOURS	Nest Oil Change							Floor P /	31
WEIGHT ID 5 1	5 10.4 10.4 No.1 101	850 850 8	50 860 No. 2 50	ti.	1 - 1	123	250	-	- 8					Floor	Poter
M VISCOSITY 32	31 3/ MODEL S.P. M	64 64	6 4 4 L/ MODEL 1.1		ULE 2	64	1		- 1		1	-		Floor	Fe /e y
	6 18 18 18			11		170	1	1	7				_		7
ADDITIVES C	DH. GENERALY	Remod 37	+3 Frank	٠	At Feet Degreet 4	-	1	1	1		1			/	
ADDITIVES STOP	- 7			10 10		Yeather - :-	Water	1	9-				-	Mechanic	
M . 350 C. 14	5	Lange Oil	+ Elter on	Desender		ema.	S Abit						417	Injuries)	
Dritting Size Make		Ton Miles To	otal Miles   Slip s	of Cut A	Miles Stip or Cut		on Speel	0	1	0 11 01	-		-	Fires:	
Record   From   Footage	70 Hrs. on .: W. Dr	rill Fige Stands	Singles   Days	100 1	D. Length Air We		FI   FI. 40 00	Des. 81	rece.	Cill of the STERKTU	RE			*	
B	Borton0 (1000	0 (bi.)	COLLARS	1	1		Kelly	Dr. 11			# 0	25-05	17		- 4 p.m. to
4430 139	4569 74 8		Drilled	9 67 2	7/590 -	Toble	11	0 .	- 7		1	5:30	1		O NOUT WE
No. 7 - Sign Type				d Hrs. Pum		Toble Torque T	E. C.	3/7/11		- 62			11	Driller Stew	e DA
1 2 18584	3-1576869 3	30-60 5	85 323 -		900 65			0211			5:30	12.00	62	Derrick Desig	ht Le
4 5		- 1 01	1/21		1 3				1			1	01	Motor A	156
P MUD Pam. 6	p.m. 8 p.m. 10 p.m. PUMP		10 p.m. PUM		m. 8 p.m. 10 p.m.	MOTOR HOURS	Change	1		1.			8	Floor Bal	Be
WEIGHT 10.5/	5 104 164 No. 1 500	850 800	25D 500 No. 2 1	1 7 g	16	130	250							Floor Tack	Ful
O VISCOSITY- 30	5 10 4 16 4 No. 1 30 10 10 10 10 10 10 10 10 10 10 10 10 10	64 67 6	2/ 64 "South	200	2	22		š						Floor	1 47
M W.L F.C	D 16 17 03 5121	1 35 ×	16 400 1	4 3 3	A Feet Degrees	179		1 2	15		-				
D'ADDITIVES 5-GE		CROTES	SHOAR 19	11	3	10			~			α	_	2.00	
N Store					, v	Weather	Woler		0				-	Injuries:	
-G == 5-/7		1	- 4	rel .		emp.	8611	1 20		2					2%
Drilling Size Make	Serial Na Ho: Trips	Ton Milet.	oral Miles Slip	or Cut A	Miles Slip or Cut	Silo Silo	Pt. Left on Spool	1 0	0.	HoRL				Fires:	
Elegie	Pres Pacifing & Sea	Crown-a-matic	Fuel on Hand 12.01 a.m		100000000000000000000000000000000000000	REPORT		Casa CEQUI	PHENT CHANGE	TOAKHER WHENATO	兵	TRANSFER	= 1	Toolpush A	
Hedril \	sure Inspected Date	Rig Savers	Evel Rec'd Today (odd)		goit. CASING	RAN	N	/15 CSO						Signatur	-1-1
Fige Roms.		.Chk'd.	-	TOTAL	90% 10	KB, USED	S.A	X CEM				-		SAFETY TACKS	Lind
Slind Roms.		Kelly Cock Chk'd.	fuel on Hand 11,39 p.m		goli, PLUS	-	PLUG	P.M. COAL	ON HAND	TOUR TOTAL	TOTAL		_	Subjection	
TOTCO RING ON BIT # -	Boiler Operated: Hrs.	fire Equip.	FUEL USED			ETURNS - (YES/N		GENERAL:-	OH MARK	TONS TOTAL	CONTRAC	TOR'S	HRS.	- 1 - 2	MARO
Dani 1-	CLASSIFICATION	Date to	Drilled Total Fr.				- 10 A			Approved by	_		- 1		
PIPE Size Joint	2 3 4 TOTAL	Sonote tine	te Sanosc Drilled	CALIFER DA	TE RESULTS	PXOMP	TIPE BACK			Representative			4		M
3 4 4 4	S			/	-	Y	10.3	1	j der	Approved by		111	(1) A	Weather	IVI
4"   140				41						Toolpusher		11	3. 0	ood Franditio	

			1 =	MAILING POINT	1		SHIPPING			MILES MOVED		DATE 8-	17	196	31	DATE_8 -	- /7 19
From' Fo	lelega To H	ottom (1000 lbs.)				).D. 1,D, Len	gth Air Wt.	Sub. WI. C.B.	Fr Fr. up on Kelly		REMARKS	1	START	TIME	INTO	Tour	— Midnight - 8 a.m.
0 4569 4	61 4650 T	7/4 87	44	COL	LARS 19 6	16 2/4 59	0		23	0	1.	ž.			,	Specify ac	clual hours worked
	Type Jels/W.C. ToSe	erial No. Wat.	1.7.M. 0	Drilled or Cored Hrs.	Reamed Hrs		10 S.P.M.	Table T.	B. G.	Wrill	- 1			1:00	1	Driller Dous	a Peters
1 3 774	6 684F 3/15 76	3509 30	60 6	066 40	1 4	1 95	50 64			KRia			1:00	1:15	1/4	Derrick Lynd	on Haugen
I s	+ + +	-	1		1			1		Drill			1:15	4:00	274	Motor Cary	Pet- 150
N MUD	2 mn. 2 a.m. 1 a.m. 6 a.	- PUMP	7mm. 2 a.m. 4	a.m. 6 g.m.	PUMP 12-	7 0.m. 10.m	dom. M	OTOR HOURS	Nest Oil Change	"Surrivey			4:00	4:30	1/2		t Charles
I WEIGHT VC	25 1251A5 12	5 No. 1 1011 Q	150 450 g	50 850	No. 2 5464	5	1	138	250	0 11	1.0				31/2	1 1 1	Daniel 50
G VISCOSITY	33 22 32 22	3 NODEL S.P.W.	at lost	64 164	MODEL I.F	Tlie		40	1	- Unil		ś	14.30	8.00	2/2	Floor	TARITI ST
GEL /	16 17 18 15	1011	5/2-4-1	6	1111	501	VEYS A	186	1				+	1	8		
TWI	F.C. pH.	GENERALICA	ean Su	etion 7	Tank	100	1 1 1 1	96	1			1.07			-		
O ADDITIVES	G-1-6	1	-1		v'	461		eather .	Water	B. LT. L.	- 7/8//		120		-	CO. 300	- 1
	1t - 20	G -\	- 1		- 1		-10	mp.	851	- 1- 1	C 11.	*	. 5.5			Injuries	1
A Drilling Size	Make Serial No.	No. Trios T.	Ton Miles / To	pial Miles	Slip or Cut	At Miles	Slip or Cut	Next Slip	FI. Left on Speel	From lank	- tall	70			-	Fires:	-1
Record itin	in a district	19 21		24	1		5/6/8/			Des 8ho	5	FORN HAR SIGNAT	TURE		-	3 /	
I from to	salage To M	attom (1000 lbs.	ine Stonds	Singles 7 DE	RILL No O	0.0. 1.D. Len	gth / Air Wt.	506. Wr. C.8.	Kelly	0.1	- 4		8:00	9:45	13		- 8 c.m. to 4 p.m.
¥ 4250 1	14 4764 -	174 97	45		19.6	4 24 59	70 -		3	Dr19 0	-( . /	ann)	0:115	10:00	4	Specify o	clual hours worked
	Type John W.E. Se				Reamed Hrs			Terque T.	8. G.	1	( / 1	2.0.F.		The second second	14	Driller 13///	Peters
3 92	9 5896 3/15 76	8809 30	60 7	80 473	1 -	1- 85	0 10	RU	11	Drig		U	10:00	4:00	0	Derrick Clay	ton Aas
S	100		-		1,3			-1	11	- J	-		- 1		8	Motor Marri	· Mala
MUD 8	8 a.m. 10 a.m. 12 naon 2 s.	m. PUMP 8	3 a.m. 10 a(m. 12	2 noon 2 p.m.	PUMP 8 a.	m. 170 a.m. 12 no	on 2 p.m. C	OTOR HOURS	Nest Oil Change	1.00	*		1	§	100	Floor P /	Blons
WEIGHT ,	20126 12111	A ./ No. 1 1911 04	57 950 0	700	No. 2 Sust	1 301	1	146/	250	+ -			154(1			Floor	D+
M VISCOSITY	24 24 22 3	MODEL STA.	14 64	64 000	MODEL 5 /	7 11	1 2	88	1				+		7	Floor	Peterson
T TOEL	18 18	Z STE	54 x	1654	5/20	1-01-	1	194	. \	1			1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 1
0 W.L.	&c PH.	GENERAL:	carried	2 com	~^	Alfee	Degrees 4	1	1	. +		- '	1 6	10-11-01		i la di di di	
4 ADDITIVES		Chro	omatas -	1	12 15	7.	w.	26	Water .	- 1		111	1		-	Mechanic	
M	1.1. 5	1 .			2/1/	V. 19.	70	m Description (MC)	861			1		-		Injuries:	
Orilling Size	Make Solo No.	Lines Trips T	Ton Miles To	atal Miles	Stip of Cut		Stip or Cut	- Next Slip	ft. Lett an Spool		/	101	-	-		Fires:	
- Record V	Union	8 7		28 3	1	0,0. 1,0. ien	8-4-81	500	B 16/	Dan 8	hie.	Montrestsessona	9000	-			
F "" / "		(1000 lbs	t.i	- D	RILL No. O	5.0. 1.0. 1en	igin Air Mi.	1300, W.	Kelly	10.11		7	4'00	415	4		— 4 p.m. lo Midnigh
4764	23	1946 89	46	- 1	1/9/	7 7 5 5 5 No. 77815	50	Table	1/3	-0 (			7.2	4.39	4		school hours worked
56	2 - Tros Flaning	Wel.	R.P.M.	Drilled or Cored Hrs	Reamed He			Table T.	5, Z C.	17.9 201	-		1113	7.30	13	- Driller Stewe	SACTORS
37	3 5841 3 75 9	68809 30	60 5	363 50	2 /	1 95%	04			116:11	1		430	6.15	17	Derrick Dais	L+ Lee
A 5 -5"	Doll			7 53	1/2		3/4		- 1	Clean S	the to	-K-	1615	6:30	4.	Motor A, A.	& Black
P MUD	4 g.m. 6 p.m. 8 g.m.; 10 s	a.m. PUMP 4	4 p.m. 6 p.m. 1			.m. 5 p.m. 8 p.n	i. 10 p.m. (	ACTOR HOURS	Nest Oil Change	17 11	7 9		1 17:37	7.45	12	Floor Z	Deard
WEIGHT	Thud u	W No. 1 1000		450 811		1	1	159	200	111	1 # 9	0	- Division	-6:20	13.	Floor Jack	File les
YISCOSITY A	20 70 10.43	MODEL S.A.	1 44 6	60174	MODEL K.F.M.	Down	. 2	96	02 1	A Ange	-17.0	Tunp.	17.75	7.30.	5	Floor	
GEL	2120 101	5 DENERALL	-52 × 1	4	3128	1 50	RVEYS	202		-Or 11	· · · · · · · · · · · · · · · · · · ·		5:30	1200	23	_	
ADDITIVES:	RC AD	GENERALI	-lean 3	Soutiers	1 mK-	- At Fee	Degrees 4	1/2 +all 35/	1		and probably have a long a state of	and the same of th			X		
5	-GC/-16	Cha	1198 00	7. 7.7	pany		N.w	+aller	Water	-	4	1	773.00		-0	Tall Areas	
N. Carlotte	519001 16	*		No. 2	-		1 1 2	mp.	. Bal		1	40		10-0-1		Injuries:	
Ğ	Make Serial Na.	No. Trips	1 14	dol Miles	Slip or Cut	Al Milet	Slip or Cut		Fr. Left on Speel	1.11-	11.	11/1	1			Fires:	
H Orilling Size	1	Pocholo & Seed	Crown-a-matic	18	5 ( 20	T	1010	11 4700	1	1 Cost of Four	PMENT CHANGES	A SANGE SECRETA	TURE	TRANSFER	#	Toolpush A	
Line Record 1-2	M Elbored Pres	Packed & Seek Co	Chk'd	Fuel on Hond		90	1	REPORT	N 2	ITS - ICSG 2	I/ P	P			200	Signature	1.0.
B.O.P. Forled .	Ugibares Pres		Chk'd	Fuel Rec'd To			10	Ka, ÚSEC	de la se	AX CEM	, , , ,	1 1				SAFETY THIKS:	San San
B.O.P. Hened	If Elbared Pres.	1			TOTAL	90	-	75,0000	PLUG	A.M.	*@.0101	tores	257		-		0.
B.O.P. 1 Seried .	I Elborist Free sure	1	Kelly Cock Chk'd.		41.88	fe t		74,	DOWN	P.M. COAL	ON HAND	TONS TOTAL	I OLYT D.	1015	110.00	Subject :-	
B.O.P. Toned .  "Hydril g fine Roms.  Blind Roms.	Boller	1	Kelly Cock Chk'd.		11.39 p.m. Idedul	-	Is. PLUS	THE PARE		CENERAL		TIME	HES TIME	1043	HRS.	1	MAD
B.O.P. 467ed .  **Hydril de fice flows.  Blind Roms.  TOTCO RING ON SIT #	Boller Operated:	t Ho.	Kelly Cock Chk'd. -Fire Equip Chk d.	FUEL USE	0	90		TURNS - IYES IN	(0)	GENERAL: -		Approved by	HRS. TIME		HRS.		MAR-
B. O. P. Toned .  "Hydril g  Fine Roms.  Blind Roms.	Boller Operated	Hrs.	Kelly Cock Chk'd. -Fire Equip Chk d. Date Fr.		0	-				GENERAL: —		Approved by '- Operator's	HRS TIME		HRS.		MAR-3
B.O.P. Torted .  B.O.P. Torted .  Mydril :  Fice Roms.  Blind Roms.  TOTCO RING ON SIT ::  DRILL	Boller Operated: CLASSIFICATION	t Ho.	Kelly Cock Chk'd. -Fire Equip Chk d. Date Fr.	FUEL USE	Total Ft.	90	CEMENT RE		(0)	GENERAL:		Approved by	HRS. TIME	//	HRS.	Weather:-	MAR-3 MAR02-03

ONS TO	Contract of the Contract of th			POINT_	5		POINT	ING			MILES		DATE	8-	18	196	18	DATE	8-18	19 2
From Fo	oolage Te	Hrs. on Ws. Drift Bottom (1000		Singles	- DRILL No	0.0 1.0	Length	Air Wt.	Sub. WI. C.B.	FI FI up on Kelly		REMA	RKS			TIME	1	To	ur — Midnigh) - 8	u.m.
849 1	20 4967	73/4 80		- 1	COLLARS 19	6/4 2%	590			19	0 11		- /-	- 40	START	\$10*	TOTAL TOTAL	Specify	actual hours worker	d
No. Size	Type Jels/W.C.	Serial No.   We	1	Drilled at Cared	Hrs. Reamed	1 12.00		S.P.M. To	obie 7.	t. G.	Orill				12:00	12:45	14	Driller Ta	19 Peter	904
3 77/	8 584F 3/15 1	768809 31	00	9831	61/4	1	850 1	64		- 1	W Bia	_			12:45	1:00	1/4	Derrick Zun	don Hooon	onso
		- '	100	1			-	-			Drill	7.	*		1:00	8:00	7		2 Peter	
24		-			Name of Street		I	- Wa	TOR HOURS	Nest Oil Change	Carri	96.2	-			-	1			
	2 mma, 2, a.m. 4 a.m.				PUMP		4 a.m. 6 a.	1 1	10K 1-00K2		-	-			1.	1	8		ort Char	
У	05 105 105	33 WOOLL SEA	450 550	650 55	MODEL SEN	1	1	2 1	101	250							-	Programme and the second	n Toniel	507
		15	5 KT V	110	U#11	1 40	10	12.		7		4.			1 7 1	2		Floor		-
	F.C. BH.	GENERAL:	15.	Tank.	#2		At Feet Deg	grees A.	120	1	To		147	-	1				10 300	
ITIVES CA	11-15		154110	100		The Teach		3 1	24 42	1	11	/	//	,						
<.90						4		Weat	her W	Moter	Back 1a	nk-1	0					Injuries:	.0 .0	
ctacc		T SERVI	, miles		Tour	1		Temp	1 18	. 86/s.	Front 7	ank - FIL	18				2	2		
ing Size	Make Serial No.	Limes Trips	Ten Miles	Total Miles	Slip or	Cut At	Miles Slip	or Cur	13110	fri tell Jen Spool	10 11	r 5	W) 5	1	-			Fires:		
	delige To	Hrs. Va Wt. Dri	Pipe Stands	1 28	DRILL No.	. 0.0. 1.0	length (to	6/2/	580 ( ). 500 WB C.8.	Ft.   Flavo an	1 2 5. 0 h		DRIE	PER'S SIGNATUR	-	100	- 7	т.	our — 8 o.m. to 4	o.m.
	00 -0-1	80110M (1000	be.)	1 1-	COLLARS .	11 2	Tran		1	Kefly	Urla	-117		-1	8:00	8:15	4	V-11	r octual hours worke	
67 10	19 15076	771 91	-	Drillad	1 19	6110	41590 1		able T	15	V R	17.	-B.O.A	/4)	8:15	8:30	1	Driller D 1 1	1.0+	
	Type Jan/W.C.	Serial No.: Wi	_	2. 20.00	Hrs. Reamed	Hrs. No		5.P.M. To	- m	. B. G.	01-				10.10		1	01//	Peler	SOF
-JAN 773	4 584F Z-15	768819 3	0 60	1092.	69	1	850	64	1	A P N	Urig in				8:30	7:00	1/2	Derrick Jay	Ton Has	he,
and and		-				3		-	-		7	1		- 16		-	8	-Motor M/	i. Mal	and
NUD 8	8 a.m. 10 a.mr 12 noon	PUMP	B a.m. 10 a.m.	12 noon 2 p	.m. PUMP	B a.m. 10 a.m	. 12 noon 2 p	,m, MC	TOR HOURS	Mext Oil Change	Late Mir p	14.5			*		3	Floor Por	Blom	5
COMMERCIA	0.510.510.4	The state of the s			No. 2 540		- 80		70	250	- 4	1 4			20	1 1 1	12	Floor	D.L	(2.5
scosity	33-33 32	37 HOOEL 1	14 64	441.	MODEL S.F.	4 - 2	-	2 2 /	12	1				-	1			Floor	10/01	50
	19 22 19		6/3-	× 15	- 5(2)	550	X-12		218	1		4					0		-	
		GENERAL:		1			At Feet Deg	grees 4	28/	1	- 7				1				15. 9	-
ITIVES, 5-		Chees	-/-		ř.	150/2	1	5	-50	Water	1	. 3		**				Mechanic	0.9	
Ct	11 00	•	1. 00	447				Temp					***			1	-	Injuries:	Will so a second	1
ing Size	Moke Serial No.	No. Trips	Tee Alles	Total Mileria	Feet		Miles Slin	Dore or Cut	Nee! Stro	Fi. Left an Spool		2.27		1	-			Fires:	11/55	73
1/9/		Q 7		108	Slip or	Cor	0170	1/81	500	an agoo!	Dec. 8	his.	B;00 +	Later			-		.4.00	
	cotage to -	Hrs. on Wi. Dr		Singles	DRILL No	. O.D. L.D	Length			St. Fr. us on Kelly	11 11.	1	DMI	LERS SIGNATUR	100	Lien-	14	, Tou	ur — 4 p.m. to Mid	night
	11 FAGA	80Hom (1000	40	2	COLLARS 19	1. 4.1	1-1-	has	100	20	11	,	0	a	400	7.13	-/-	Specif	Yaciyal Kours worke	1 6
No Size	Type Jels/W.C.	Serial No	1. R.P.M.	Drilled or Cored	Mil Roomed	Hrs. E Na.		S.P.M. J	obie Sik	£ 5.	Circ 5	Mist	Survey	508	415	15/130	7	Driller Cr	in Paul	10
7 11	1 SOVE 3-15			1103		3 /		1.4	-0.00		10.11		/	- X	4.30	5:00	22	Derrick 1	THE DATE	0
# 50	0 122 3 5			100	3	31	950	-		2. 10	120011	C1	м		150 5	1		C- William	yht lee	4
1 //	2 15	M. Ta - S	1		-	1	- in-	/-	1. S.		PUO.H.	- 2/6/	11		1.00.	900	27	Molor City	g Black	' v.
MUD	4 p.m. 6 p.m. 8 p.m.	The second second	4 p.m. 6 p.m.	-	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 1		. 8 p.m. 10 :	a.m. MC	TOR HOURS	- Nevl Oil Change	GIH	,			900.	10:45	17	Floor Bruk	e Bear	d 1
	124/04		500 650	1.0	7 No. 2 500		10	17/	783	250	to lack of	Ring	31 +	L+ hale	11-95	11:30	3	Floor TACK	Fulry 1	11
		P MODEL EAM	A CANADA AND A COLUMN	110	MODEL S.P.		6 14	2	20	F	0 . 1	The state of the s	7	The state		\$ 30	-	Floor		
GEL	17.18	nit hit		10 -12	U 512	-	SURVEYS	3 0	126	-	Nr. 11	4		-	11,50	100	12		T	
UTIUE'	F.C. BH		sieged	M The	Kon Tan		AI Feet Det	4 5	136	1	-				-	16 / 3	1		77.	
ITIVES:	5-Ge/-1			US	1.7		5881	7 3 Wee	5-8	Woler	Beard	cini					LU	= -	-4-	- 1
\$	Starch - 8		1,4 1,2	1		*2		Tem		86/1	/ / / 0	141			1	FIV	P.F	Injuries:	4 10	-
ling-Size	Moke   Serial No.	Ne.	Toe Miles	Total Miles	Stip of	Cut At	miles Slig	Date for Cy	Nest Stip	Fr. Left	PILAP	5.087	111	01	+	1		Fires:		1 10
10	union	8 2	92	278	1		8/	16/81	200	30	Cort Nurhals	14	Strues	ERS SIGNATURE	E	1				
Tested	Elapsed Pres-	Packing & Seal Inspected Date	Chk'd.	Fuel on	Hand 12.0) s.m.		goit. C	ASING R	EPORT	0-1-1	The second secon	QUIPMENT CHAN	IGES			TRANSFE	R =	Toolpush	MAR02-	0315
			Rig Savers	Fuel Res	'd Todey (odd)		gols.				ITS CSG							Signature	21402	4010
4.		-	Chk'd.		J	OTAL	, gais. 10		KB. USED		-							SAFETY TALKS:-	-	-
m i.	1 . *		Chk'd.	Fuel on	Hand 11.39 p.m.	Ideducti	gais. pti	US .	24	- PLUG DOWN	P.M.	OAL ON HAND	tons to	TAL IMPANY	TOTAL	TOR'S		Subjection	BAAD	24
ING ON SIT	Soiler Operated	Hrs.	Fire Equip.	FUEL	USED				ארכבירור באא		GENERAL:		Ita	WE HI	S. TIME		HRS.		MAR	-31
	CLASSIFICAT	ION	Date	Fr. Drilled	Total Ft.	CALLETE SA			1	- ×.	,	×		proved by						
Size	Jaint 2 3	4 TOTAL	Senoic	since Somosc	Drilled	- CALIFER DAT	. RES	SULTS	. 110M P		-	1		presentative				30.7		
									1 1 1			4 - 0-,	A	proved by				Weather		
	**												- TA 10 1	olpusher .				In the second second second	ditions	

T Free	foelege To	Ballom (1000	orill Pipe Stand	s Singles	DRILL No.	0.0. 1.0.	Length Air W	1. Sub. WI. C.	5 Fi. up on Kelly	R E	MARKS	37491	TIME	INTVL		- Midnight - 8
TT III	93 97 5190		8 49		19	16/421/	1 590	7.85 8.	70 30	Drill		17.00	12:30	-1/-	-	ual hours worke
	o. Size Type Jels/W.C		No. 1.P.M.		Hrs. Reamed		Pressure S.P.M.		8. G.	10			12:30			Peter
MI	1 7% 5-22 3/15	MF 732 39	140 765	104 8	74	0	800 64	~		V Rig		12:30	12:45	14	Derrick Lyndo	n Hara
1 - 54			-				4 9			Drill		12:45	8:00	7/4	-Molor Gory	Paturs
N MU	10 12 mm, 2 a.m. 4 a.m	. Op.m. PUMP	12 mn. 2 a.	m. 4 a.m. å a.	m. PUMP	12 mm. 2 m.m.	4 a.m. 6 a.m.	MOTOR HOURS	Next Oil Change	2000			- 5 >	d	Floor Rober	
100	CHT 103 103 103	10.3 No. 1 1415			No. 2 8081	800 800	800 400		250	-				0	Floor Lern 1	2-1-10
G VISCO	OFICE AN IN INC.	I am lunger have	1	1	MARKET CAR	1 11 /-11	611 111	2	1					1	Floor	Jakirkin
7 00	18 17 15	17 . 101			in	5/2	X JAHEYS	234	1	- Control of the Cont	Contract of the Contract of th		1			
T W.L.	I.C. pH	GENERALIA	Cleaned?	Tanks #	2100	Suction	At Feet Degrees	144	+)				1			**
O ADDITIV	VES: 5-G-1-8	-50H-25	-		,	Tonk	37	Weather 50	Water	11 - 1 4	1111					- "
8	Storch = 8		144.1					Temp.	Abir	Beck lank - 1	000		1		Injuries:	
A Drilling	Size Moxe Serial	No. No. Trips	Ton Miles	Total Miles	Slip or	Co. At N	Miles Stip or Co	Nest	Fr. Left on Speed	Front Tank - 1	all				Fires	
Line -	11/2 144104	4	1 8	775	1 :.		9/10/	al con		Des 8 hes	DODRIGHERS	t year				
	n. fostage To	Hrs. on W1. Dr. Boltom (1000	of the Stand	11 Tingles	DRILL No.	0.0. 9 1/0	Length / Wil W	1. Sub. WI. C.B	6. Fl. Fl. up an Kelly	01 3	0		10'20	1-	Tour	— 8 o.m. to 4
8 519	10-135 532				COLLARS 19	1 14 24	1 590 -	7.85 8	3 .	Drig	1 1 2 2 2 ]		100		Specify ac	ual hours works
	to. Size Type Jets/W.		Wet. 8.7.M.	B - 114 - 1	Hrs. Reamed	Hrs. No.	Pressura S.E.M.	Toble T.	1 s. c.	V Rig V	B. U.P.	9:30	9:45	4	Driller A:11	Pete
1-15	1= 17 T-22 - /20				1/ -	- 2			il h	0.12	7.53	9:05	4:00	12	Derrick 1 +	1010
	400	1	3/21/10-	0.	-	1 - 1			7-1	7-7-	- b.	1.7	1	10	17/10	n Mas
5		1	-		E 2 2		- A		1000				1	10	Motor Morris	Mel
S MI	1 0 B a.m. 10 a.m. 12 no			.m. 12 noon 2 p.					Next Oil Chonge	2.5		1			Floor Pay/	Blox
No.		4 103 No. 7 14			No. 2 5001	800 800	800 810	194	250	W.	9	1 1	1		Floor	Pt
Seat Seat Seat Seat Seat Seat Seat Seat	OSITY 33 32 3	J 33 NODEL 1,5 .		111			64-60	1 112	-			1.1	1	1	Floor	7-5-
I se	EL 16 15 1	GENERAL)			\$125	53 7	SURVEYS Al Feet   Degrees	3 742	1	1		14	-			5
ADDITI			-	- L					1			1	*		Color Color	
2	ves. 5-6el -5 5tarch -12	5-15-25	12/00	2 2 2 2	54			Weather	Water		, m		44		Mechanic	-
M	STaren -/1	1111600 5	17.4	(2)				Temp.	Bb(s.				1 12		Injuries:	
Deilling	Size Make Serial	No. No. Trips			Slip or	Cul At h	Miles Slip of Co	Nest Slip	Fr. Left on Spool		12.44.07		9		Fires	
Record	172-17-1-	-8-1 7	10-10-1	275	1		8/1/81	500		Dos 8 his.	Bill tracks	ENTERE				
1107	m Foetage 0	Borrom (100	Oritt-Pipe Stond	3 Singles		. 0.0. 1.0.	Length T Air W	1. SUB. WI. C.	. 5. Fr. us on Relly	Deill		4:N	5:45	13	Tour -	- 4 p.m. to Mi
8 53	25 86 5411	7 34 10	0 51	7	COLLARS /	9/15/25	590 -	7858	7029		4 . 0			11	Specify ac	tuol hours work
i N	to. Size Type Jets/W.	C. Serial No. W	Wet. E.F.M.	Drilled or Cored	Hrs. Reamed	114	-	Viorque . T.	8. G.	Service Rig 41	- Ban	5.90	6:00	14	Driller Pla	ght.
1	4 77 5.22 3/10	- MF732 =	27 10	325	733	_ 2	800 64	1		Drill 2		6710	12:00	6	Derrick 1/	ud B Na
					1	19.		113						/	Motor 2	
4 5	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-		1	1			New Oil	3			1	0	FRIS	Black
M M L		The state of the s		m. 8 p.m. 10 p		40.00.00.00.00.00.00.00.00		MOTOR HOURS				716	-			e Real
Sec.	OSITY 20 2/ 3	4103 No. 1 100		14	HOOEL E	1800 800		200	250	r .		1	35		Floor Jack	Fulu
100	BL 11 1/ 15	2 30 ×00€L 1.7.	1.0		LINE		64 64	144							Floor	
M w.L.	16 10 10	GENERAL		100	1 3121	11331	SURVEYS At feet   Degrees	1 250			A. T		+			
ADDITI	VES -5-60/ 2/	Me						1 .07	1				-	1		
N	Staceh-11	Car	Ja. Ch	00- 8				Weather	Water						Injuries:	
G	tox+ - 22		300000					fema.	Ebis.	TX	0 -	50	1		injuries:	MAR
H Orilling	Size Make : Secial	No. Lines Trips		Total Miles	Slip ar	Cut Ala	Miles Slip or C		Fr. Left on Spool	~ ~ /	1 the factor	a ee	1	7	Fires	
Record	11 3 7 2 2 3 1 2 3	Parking & Seal		725		1	100000000000000000000000000000000000000	81 500		DOOL ES NO. A.	ORILLER'S S	GNATURE	Terrupte			
8. O. P.	Tested Time sure	Packing & Seal Inspected Date	Cha'd.	Fuel on h	Hand 12.01 a.m.	1	gols. CASIN	G REPORT	IN .	ITS CSG.	ANGES		TRANSFE	1	Signatura	nat
Piae Rama			Rig Savery Chk'd.	Fuel Rec	d Today (add)		2015.	7				- Same		1	Signature	2/11/2
Blind Rami.		Y .	Kelly Cock		1	OTAL	gals. 10	KB. USE						- 11	SAFETY TACKS	
	) Bailes	+	Fire Equip.	Fuel on h	Hand 11.59 p.m.	(deduct)	gols. PLUS	4,	3 DOWN	P.M. COAL ON HAND	TONS TOTAL	HRS. TIME	TOR'S _	8	Subject:-	
TOTCO RING	G ON BIT # Operate		Chk d.	FUEL			gols. CEMENT	RETURNS . (YES/)	101	GENERAL:	TIME		1000	HRS.		MAF
DRILL	Size Joint	TOTAL	Date	Fr. Drillad	Total Fr.	CALIPER DATE	E RESULTS	FROM	PIPE RACE		Approved					
PIPE	2	1 4 3	Sonorc	since Sanasc	_ Dritted			3.7			Represent					
	A TO BUT		1.0								Approved	N A	11		Weather	

DINU UIL	EQUIPIVIEIN	ILLID	, (DRILLING DI	VISION)	DAILY DRILLIN	NG LOG	RIG NO 5	LOCATIO	N_ 1240	-14145	19-1	LSD	_110	D_TWP	25/ n	18.58 Ew.	RIG NO 6
DIRECTIONS TO			MAILING			SHIPPING			MILES		DATE	8 -	20		8	DATE 9 -	
WELL . from fo	polage To Hrs. on	Wt. Drill Pipe	Stands Singles	neur No.	0.0 1.0	Length Air W	1 Sub. WI. C.	Ft. Ft. ye er	·				1, 1	TIME			- Midnight + 8 a.m
Territ	13 5504 73/4	11000 Ibs.1		COLLARS 19	1 1		5 45 8.	2	# H / H	REMAR	1 K 2		START	5100	INTYL.		octual hours worked
Pri	Type Jets/W.C. Serial No.	10			Hrs. Pumo	Pump ISP H	7.85 4.	10 5	10:11	1		e 1	12:00	2:3	2/5		
	4 5-22 3/15 MF73					200 64		1	17 Ria	7 28			7:30	2:45	1/4		3 Peter
MT	*			-14				1 2	0:17	7		· · · ·	1000		100	10 1 m 10	on Horago
Sudo(-):					-		*: <sub>0</sub>	No. 1	Drill		~		2:45	8:00	15/4		Patento
N MUD	12 mm. 2 a,m. 1 a.m. a a.m. P	UMP 12 ms	2 a.m. 4 a.m. 6 a.r	PUMP	12 mm 2 s.m.	0.m. 60.m.	MOTOR HOURS		- 4	-11	_	R.		-	8		st Charles
WEIGHT I	03 10.3 10.3 No. 32 32 33 33 30	(I west	16 850 J	No. 7 tuni	800 800	800	310	220				3			-	Floor / OSA	Daniel 500
	13 14 14 15	5)18	5/2 × 16 6	O LINE	51/2 X	144	137	(:	· Pro	and the	3	See Contract	· 5	,		Floor	- 75 5 2
W.L.		ENERAL -	oned Tank#	=/:		SUNVEYS	11-8				- /		100	1	4	-	30 W
ADDITIVES: 5-			Changed			- Jac	90		- Name		. //		-	12	1		diam'
	weh-10		ou # > Pu			ed	Weather	Water	Beete Tan	k - 31	0"		(4	1	-	Injuries:	
	11 CA -15	1 100	Air filte	1 20	110	. 1	Temp.	8511	Front Ta	ork - full	2		1			4	
	Make Serial No. No.	Trios Top Mi		Stip or	Cur Ar Mile	Silbor Cu	Nest 500	on Spool	0:0	hrs	MAR	1	1			Fires:	
	cotoge - To Nis. on	Wi. Drill Pipe	Stands   Singles	I amin I No.	0.0. 1.0.			InFt   Fr. up on		112	DRID EN	S SIGNATURE	0		1.3	To:	or — 8 a.m. to 4 p.m.
O CENH	Bollow	11000 181-1	53 1	COLLARS 19	1-14 74	1 6	5.55 5.	3.	Dria				8:00	9:45	14	- v	actual hours worked
		o. Wel. 1	Drilled	Hrt: Reamed	67 24 S	Pump S.P.M.	7-85 8:	8. G.	VRI	1.V	B.A.P.)		9:45	10,00	1	Driller D 111	0+
Etron ?	e Type 'Jen/W.C. Serial No (4 5-77 3/15 M F 73					800 01	1 3 / d	L. A	Arto 3	C 4	2101719				1 1	0111	Peler
	40-17 3/13 11173	3	22 24 25	7		4	100		2	10.1	011			11:30	1	Derrick C	y Ton Aast
5		118				- 1 2	··· M		DUFUCY			-	1130	11:45	7	Motor Mort	is Mela
The second name of the last of	8 a.m. 10 a.m. 12 noon 7 a.m.	The state of the s							Orla				11:45	4:00	44	Floor Paral	Blo
	0.3 10.3 10.4 10.4 4		77		800 800 8			250	7			1		-	8	Floor	Pater
	34 34 35 35 "	LINES	11/2/	MOOEL FAR	84 64 6	111/24-12		-	St.	4.71						Floor	
- GEL	12 74-13-13 F.C. PH. 6	SENERAL OF	ed sec. +		1.52 A	SURVEYS I Fee!   Degrees 4	10	1	-			5-4					= 41 41
ADDITIVES	44	Chi-ni-	1	2 4.		-17 10 5		1		ite .	4		-	-	-	Mechanic -	72.70
		reder Fi				-0111	Weather	Worler				4			37.1	77.14.1	. 4
M . 1 0	Mich - 5 #	5-14-		-			Temp.	8 bis			· -		100			Injuries:	37.7
1104	45 1 11114	Trips - Ton M	Miles Total Miles.	Slip or	Cur At Mile			ft. Left. on Speal	D. 75	1	nyn a	1	1.			Fires:	
From F		Wr. Orill Pice	Stands Singles	nous No.	. To.D. 1.D.	Langin Air W			Vec. Fo	her:	15/1/ OKILEK	STORMAN	2	-	1/.	Taur	- 4 p.m. to Midnigh
\$ 5628 9	94 5722 73	11000 161.1	54 1	COLLARS	21414	502	Subi S.	S-   ***********************************	Drill				4:00	4:15	14	Specify	actual hours worked
	41	1703	R.T.M. Drilled or Cored	1/9	Hrs. Pumb	Pumo S.P.M.	7.85 8.7	10 2	Service 1	ROV BO	)		4:15	4.30	4	Driller O	L *.
	E TOO MINNE. Serial No.		CO 636 4	Hrs. Reamed		100 604	Torque 1.	1	Dr.11	7.100	P		4:30			- Dun	ght has
7	2 4 char 3/13 11172	145		04	200			5-31.7	Drill				430	100.00			den Hagge
4 5 14 2	1 1		7.5	F. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	4		100 m	T. L	1				-	-	8	Motor CT	og Block
P MUD	4 p.m. 6 p.m. 8 p.m. 10 p.m.	PUMP 4 p.m.	0 a.m. 8 p.m. 10 p	PUMP	4 s.m. 0 s.m. 18	8 o.m. 10 p.m.	MOTOR HOURS	Nest Oil Change								Floor Price	e Board
WEIGHT Y	0.3 103 103 103 "	No. 1 5005	Dad	No. 2 sunt		309800	226	250	TO THE PARTY OF TH							Floor Jack	k Fulwil
VISCOSITY 1.	1 1 1 1	CINE 4	53,16	MODEL 2'	The state of the s	14 64 3	168	+ +	-					111		Floor	
M W.L.	10 10 1/3 10 G		leaned No			SURVEYS	.0.1			- 5			1				
ADDITIVES: <		dar FiBer		TO ING	1.		5 10/2	1		246		5.0			-		
778		n+- 25	7				Weather	Water		7			-			Injuries	
G /	MICA- S			1			Temp.	i bic		137		,		1		300	
Drilling Size		Trios Ton M	Miles Total Miles	Slip or	Cut At Mills			FI. Left on Speal	Dec. 81	hie.	Duniek	S SIGNATURE		1 - 7		Fires	-
B. O. P. Tested	Elapsed Pres- Packing	à & Seal Crown-	r-o-motis Fuel no M	and 12.01 a.m.			6 REPORT	-41		UIPMENT CHANGE	ES DRIVER	S SIGNATURE	-	TRANSFE	8 =	Toolpush	-71
Mydril '	Time ture Inspect			d Today (add)	V	gais. CASINI	G REPORT	N	ITS CSG -		- 4		- 1			Signolyfula	um Ve
Pice tami.	1	Chi	hk'd.		OTAL	9911. 10	Ka. USEO	5 5	AX CEM						4.9715	SAFETY CLKS -	Caplan
Blind Romi.	. 1.		hk'd Fuel on H	Kand 11.39 p.m. (		galt. PLUS	3/	PLUG	A.M.	AL ON HAND	TONS TOTAL		TOTAL	-		Subjection	
TOTCO RING ON BIT I	# Operated		Equio. FUEL U				RETURNS - IYES / N		GENERAL:	· ·	TIME	1141	CONTRAC	TOR'S	HRS.		MAR-
DRILL	CLASSIFICATION	1 2		Total Ft.		T	12.			V 95		wed by	94 X		+ 1		
PIPE Size	Joint 2 2 4	TOTAL Sonos		Drilled	CALIPER DATE	RESULTS	FROM	FIFE RACK	*		Operoi	tor's contative	7.				MAR02-031
			1						1	7	- 5	ved by	184	01	1	Weathers	CLACKE OF CO.
		4 4				100		· *5		4	Toolpy		12 12	- 11/		Rood Condit	' . ' . ' . ' . ' . ' . ' . ' . ' .

DIRECTIONS TO		<i>}'</i>	10-	7	MAILIN POINT		DAILY DRILLIN	SHIPPING	RIG NO.		MILI	100 13-	DATE	8-22		194	81	DATE 8/	2.2
From	Faatage	Ta		Drill Pipe Stan	de Singles	DRILL No.	0.0 1.0	length Air	VI. Seb. W. C.B	Fi Fr. up an		REMA	PKS			TIME		Tour —	Midnight - E
6 6890	20	5920	- 1/1 /2"	04 50	0 2	COLLARS	14. 74. 4	790	5465 8.	70 24		0.000	20%		TRATE	310*	INTVL		al hours worke
	te Type	Jelliw.c.	-	Wal. R.P.M	W 11/2 - 1	Hrs. Reamed		UMP   5.P.M	Tobie T	1. 0.	POOH				12:00	12:15	1/4	Driller	2+
R 15 7	Va F.3	3/15/1	P 21 5411 6	10 105		2		00 64			V Ria				12:15	12:30	1/4	Derrick/	The said
Part T	3 3	100	WD- III		30	4	1	1			~ 1		-	111		- /1	3.	Molor ynd on	Hange
D S	1 .7	3		1		1				· ·	G-TH	1. 1.0				2:15	10	The said	eters
Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, w	-					The state of the s	12 mm. 7 a.m. 4	, m.   6 a.m.	MOTOR HOURS	- Kest Oil Change	Wash T	o bottom	-		2:15	2:30	14	Floor Robert	Chan
WEIGHT	7 63	100	014 No. 1 100	Trip	800 80	OD No. 7 1481			258	250	Orill				0:30	24:30	2	Floor/ worn [	Daniel
H VISCOSITY	0 40	39	19 NY	183	64 6	HOOEL S. P.	1010		200	-	1	+ 1	irrulation	75-100Hi	4.30	1:31	2	Floor	
W.L.	F.C.	pH. *	GENERAL	110	217.16	1 3:11	3	URVEYS	50		Circula	2053	- inculation	13-100001	1		11/		
ADDITIVES.	1. 1	15			10 m		£9	7	5 138		Surrivey	+ PO.O.	H SLM	1	630	8:00	1/2		
	No I ?	0			+		37		Weather	Water	2		- 1		5		8	W. 1785	-
8 00	32.60	, -	25						Темр,	Beit		(4)		3				Injuries:	
Drilling Size	Make	Serial No.	Lines Trips	Ton Miles	Total Miles-	Slip ar	Cut Al Miles	2112 41 5		Fr. Left on Spool	-		KOL	2				Fires	
	away	7. /	18 4	Drill Pipe Stan	di Single	1	100 100 1		161 500 VI. Sub-WI. C.B	Fr. Ft. vp.on			DONCE	RS SIGNATURE	2				*
i i		orrecte	Mi. on Wi.	00 (51.)		COLLARS	21 . 1	angin Air	300. 111	Kalls	C.O.O.	4.		- 1114 1174	8:00	9:00	1		- 5 c.m. to
4500	T. D. B	1		04 56		1 19	04	590	Inhia	24	0'	1	184		9:00	9:30	1	Specify actu	al hours wor
	ita - Type -	- 1		Wgt. R.P.M	4. 20.11	Hrs. Reamed	Hrs. Pump	S.P.M	- Toble Torque	1. G.	19 41	Lagge	rs		-	100	11	Driller Bill	ete
1 5 0	10 F 3	3-15	RB1541	-	-30	2.	1 9	00 64	1-1-		Logging				9:30	4:00	62	Derrick / 1 wto	Ă.
s		1		1	-				1		00 )				11.80	_	8	Wolor M	M
MUD	B a.m. 10 a	m. 12 noon	D.m. PUMP	8 a.m. 10 a	o, m, 12 noon 2	PUMP	8 a.m. 10 a.m. 12	naon 2 p.m.	MOTOR HOURS	Nest Oil Change	Carre	ited n	0+11/	-0				Floor O. I	2)
A "WEIGHT "	104/		No. 1 1			No. 2 5445			( 0 -	250	2011	cica D	21/7/3	900)				Floor -	Sim
M VISCOSITY	40		HOOELS			MOREL E.F.	5		2 200	1					-			Troy	Pete
T GEL	8	4		10 1	-	21.55			3 50	5	N.,							Fisor	
0 w.t.	F.C.	oH.	GENERAL	St. 1			- A1	URVEYS Feet Degrees	1 224			,	-		0.1				
ADDITIVES		-		-	- maring				3 146	Water		74-0						Mechanic	
M			241.04.04.04					-	Weather Temp.		-/				-			Injuries	
Drilling Site	Moke	Serial No.	No. Trip	Ton Miles	Total Miles	Feet	Cut At Miles	Date Slip or C		Ft. Left on Speet	1.16	_	7			2.		Fires	
Second 1 1/6		*	Q LI	6 10	3 4 7	Sig or	Cut At Miles	01/10		9n 30001			B:10 F	Lesson	2				
	Foologe 'e	T.D.		Orill Fipe Stan	ds Singles	DRILL No.	Q.D. 1,D,	length/ Air's	VI. Sub. WI. C.B	F: Fi up on Kelly	14 /		DRILLE	K 2 SIGNATURE	Ilma	6:45	23	Toer —	4 p.m. ta M
8 5905	8 3	7918	34 1	54 50	62	COLLARS 19	6424	90 -	- 5-65	7	Logging				4.00.	10:73	2.4	Specify acti	val hours war
7.3		J+0/W.C				Hrs Reamed	Hri. Pumd	ump 5.P.N		8. G.	Service	ring +	Lag	down	6:45	7000		Oriller Dwol7	+ 100
157	K =-7	3/10	PEDITUH S			234		00 64			40991	and To	1		100	7:30	34	- 1	an Hass
T		0113			00 0	. ,	28	00/63	L		G.T.H		,		41320	945	P.31		,
4 5			1							New On	-	And the second second	*******	8	1000 8	30,0	14	Motor Crais	
	4 p.m. 0 p.	m. 8 p.m.					4 p.m. 6 p.m. 8				Wash	to botto	n		-	3:45		Floor Bruse	
WEIGHT VISCOSITY	109	7	10 C/ No. 1 ST		1 5	C MOOLL : 1.	1097	800	2 208	250	Dr.11			. P. 5	9:45	10:30	34	Floor Jack	Fulw.
O GEL	1	ip	40	11			F 4 4 1		1 58	1	Circul	to		1	11:20	12:00	13	Floor	
M W.L.	F.C.	pH.	GENERAL		SSPXII	9 1 1010		VEVETS	- 232		Circui		5	•	10.30	10.00			
D ADDITIVES		1=-8		- Arriver			-		1 154	+ /	-			- 1	1	1	8		-
2	Store	1-10		*	-				Weather	Water								Injuries	
Ġ	Code	- Fipe	No. Trio						Temp.	551,				1			1 11	1	
Drilling Size	Moke	Serial Na	Lines Trio	I Ton Miles	Total Miles	Sile or	Cut Al Miles			fi Left on Spaol	14 .41(44)		0 . +	+1	^			Fires:	
B. O. P. Tested	Elopsed	- Pres-	Pocking & Seal	Crown-o-mat	457			1982 AV. 4	81 500	-		EQUIPMENT CHANC	GES PRILLE	A SIGNATURE		TRANS/ ER	=	Toolpush 1	10.0
B. O. P. Tested	Time	ture	Inspected Date	Chk'd.	Toet on	Hend 12.01 a.m.		W.S.C.	IG REPORT	4	its csg							Signature	m.11.
Flor Esma.				Chi'd.	fuel Re	c d Today (add)		gals.	KB, USED	3.4	z CEM							SAFETY TATES	111/10
Blied Rams.				Kelly Core Cha'd.			7.573.	90/1.		PLUG	A.M.	Anna i anna i a	Ise-	W. E	Tana.			15.00	
10100 1000 0000	-	Soiler Operated	H.V.	Fire Equip.		Hand 11.39 p.m.		gais, PLUS -				COAL ON HAND	TONS TOTAL	PANT	TOTAL CONTRACT	08.2	HRS.	Subject:-	22.5
TOTCO RING ON SIT	2	CLASSIFICAT	Hrs.1	Chk d.	FUEL	USED		gait. CEMENT	RETURNS . (YES/A	(0)	GENERAL: -		7 IME	roved by	Ties		MK3.		MA
DRILL	Joint 2	CLASSIFICAT	TOTA	L Dole Sonore	Fr. Orilled	Total Ft.	CALIPER DATE	RESULT	FRGH	PIPE BACK			Opt	rafor's			- 1		
PIPE				1,00 140 7						- 0				resentative A		0		Weather:	MAR
PIPE					Attiv		2		1				- App	roved by		1/		THE PARTY OF THE P	
PIPE			4		15.0		7						7.6-11	pushe desso.	Se Carri	$\nu$		Road Condition	

DIRECTIONS TO				POINT_	3	1:	SH	HIPPING			MOVED	DATE		196		DATE 8-23-81
From	Footage To		fipe Stands	Singles	DAILL No.	0.0.	D. Length	Air Wt	500 W. C	B. Fr. Fr. we on	REMARKS	4.0		TIME		Tour - Midnight
T -	- 5928	Bottom     1000 t		2	COLLARS	1 1	1		- N	Kelly	*EWYKY?		37.617	\$10>	INTVL.	Specify actual hours wor
Ŭ	Size Type Jelliw.C.	Serial Na. Wal		Drilled or Cored	Mrs. Reamed	Hart Fume	5 90	S.P.M.   1	obie T	1. G.	Civilate		12:00	1:00	1	It are a series and a series ar
	714 7-3 3 -15			ar Cored		No.	Pressure		orque		0				1	SAM SHOW
MT	1/8/1-3-15	KADESTI									Kig Serv	1508 A 1	1:00	1112	-	Derrick DAN LEE
5 4						- 2	5				Var DOWN D.P. A.	C. Break Kell	11:15	6:00	1/3/2/	Molor SCOTT HAS
N MUD	12 mm. 2 m.m. 4 m.m.	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	17 mm. 2 a.m.	40.0.0		12 mm, 2 a.m	4 g.m;	6 a.m. MC	TOR HOUR	Change	Wait ON Preserva	Crow	6:00	7:00	1	Floor SHANE 1A
WEIGHT	10,4	No. 1 SURE	*	1	No. 2 1007			1 .	16	250	P MA Pin 7.		2.40	7:30	-	Floor DWIEHT L
VISCOSITY	78	MODEL S.F. W.	4	LE.	NODEL LES	64100	=	7.	216	1	Tig 1/2 Sering C		1			Floar
GEL	12 F.C. 9H.	GENERAL	4		511	5-112.	SURV	EYS	-66	+/-	Run Caserna		7.60	8:00	2	A TOTAL CONTRACTOR
ADDITIVES.	F.C. pH. Stabil - 7	GENERALI					Alfeel	Degrees 4	240	1						
	Gel - in			- 24	R.			Wea	162	Woter			1	1		
	bea - 2	-6 X		1				Tem	0.	8514						injuries
A Drilling Size		s. Lines Trips	Ton Miles	Total Miles	Slip a	Cui At	Miles	Date Slip or Cui	Slip	Pr. Lett en Spool		1	-	-	-	Fires:
Record 11/	1 usuant	8 51/2	58	511	1			2-6-81			A.	- CRITICAL CHATCHE	-			
T """	factage To	Bottom (1000)	Pipe Standa	Sizoles	COLLARS No.	0.0, 1,0	J. Length	Air Wt.	545, W1, C.	Fr. Fr. vo an Kelly	Run Casion	0	8:00	11:00	3	Tour — 8 c.m. 10
Ŭ	T.O.	-		1	/			1.					1	1		Specify actual hours wa
1 140.	Site Type Jets/W.C.	Serial Na. Wa	1. R.F.M.	Drilled Ser Cored	Hrs. Reamed	Hrs. Pump	Pressure Pressure	5.P.M. T	arque T	E. G.	Circulate		11.00	12:00	1	Driller Dought Lee
1011			) -	2			-			1	Cement Cosing		120	3:30	35	Derrick Paul B
2			2				1			17 - 12	JTS 12 HOLE -11.6#	-19=8/46	1			Motor Conia Rine
MUD	1 a.m. 10 a.m. 12 noon	2 p.m. PUMP	8 0.0 10 0.0	12 2 -	PHME	8 a.m. 10 a.n	117 nach	10 m M	TOR HOURS	Neat Oil Change	10,5	182-5124-				0 1000
8 WEIGHT	3 d.m. 10 d.m. 11 noon	No. 1 Sust		12 nson 2 p	No. 2 sust			1	01		11 -	KB+9		1	P	Drove Bear
VISCOSITY		WOOEL 1			MODEL S	1		2	2211	250	STAGE COLAR (0 5398	Tools	-		2	- Floor Jack Fully
GEL CEL		Dets.			3125	5+x	144	3	04		FILL DRIFKE @ 15863	5 wor.	330	450	18	Floor
0 W.L.	F.C. pH.	GENERAL:				- 05-	Al Feet	Degrees 4	240		CEMENT: 18 STAGE	110 6 2 2	4 00	11070	1212	
ADDITIVES								5	170	101			4		13	Mechanic
P								Wad	ither	Waler 1	200 LEAD 485 6	35+6/LA	120	60,2%	D-46	Injuries:
Drilling Size	Moke Serial N	o. No. Trips	Ton Miles	Total Miles	Feet	Cur At	Miles	Date -	Neal Slip	Fi Left on Spool	TAIL 125 G	62 mes 62 t	140+1	16/4J-	51	
Line Record 14		Q EK	10/L M.O. 81	C/C	1 - 1			211/01	500			1.16.0	4.	7		Fires:
from	Foologe Ta				DRILL - No.	0.01.0	D. Length	Air WY.	Sub, Wt. C.	Fr Ft wo on Kelly	2	LAGRICULES SIGNATURE	7	11		Tour — 4 p.m. to A
9	13	1,000	101.1	100	COLLARS				6	1,000	W.O.C.	1 7	400	130	77	Specify actual hours wa
I Ne	Size Type Jans/W.C.	Serial No. Wa	i. E.P.M.	Drilled or Cored	Hrs. Reamed	Hrs. Pums	Pump	5.F.M. 7	obie T.	B. G.	50+ 561P5 -	5000 Hinging	11.30	12m	与	0 01
	les.	7000720	1	13076		7.0	Craniste		3		3	7.7	1	19 1	0	and Letter
P			2						- III II.				1 3		0	Darrick Lynden Hone
4 5			£					100		15			-		-	Motor Carry Reta
P MUD	4 p.m.   6 p.m.   8 p.m.	Sales and the sales of the sale		8 p.m. 10		4 p.m. 5 p.m	. Aom.	10 p.m. MG	OTOR HOUR	Nest Oil Change	3 /					Floor R-Wart Chal
WEIGHT		No. 1 2081			Na. 2 5086			1	32	200	27		1			Floor / son Palise
O GEL		1300M			MGDEL 3 F. M.			2	224		0		1000			Floor
M was	F.C. att.	GENERAL			8118		SURV	EYS Degrees 4	284	1	7		-	-		
ADDITIVES:		42.33.00					Al Feet	Degrees 5	170							
N			-						ainei C	Water	2				1	0.525
G		W				1		's Tem		Ebis			1			Injuries
Drilling Size	Make - Serial M	e: Lines Trips	Tan Alles	Total Miles	Stip of	Cut Al	Miles	Slip or Cura.	Nest Stip	- I on Spool -				+		Fires
Record	Finance Steel	Patking & Seal		1	1			-		90	- 100000000	DRD EKS SISKLATURE		XK		
B.O.P. Teste	ed Figured Fres-	Inspected Gate	Chk s.		Hand 17.01 a.m.		gâlı	CASING F	EPORT	in .	ITS CSG CHANGES		1-1-	TRANSFER	=	Toolpush on 16
Pios Roms	-1	-	Rig Savers Chk'd.	Fuel Rec	d Today (odd)		gals.	10	42							Signoly grow Moto
Blind Rams.	-		Kelly Cock	7	W. W. C. T. C. T.	IATO	9015	10	Ka. USE		A M.	-				SAFETY THEKS:
	Bailer		Fire Equip.	100	Hond 11 50 p.m.	g#duc1)		PLUS	*	DOWN		ONS TOTAL	TOTAL	108'5		Subjective
TOTCO RING ON B	Operated:		CM d	FUEL	USED		golf,	CEMENT RET	URNS - [YES.	NO)	GENERAL: -	TIME HES	TIME		HRS	MAF
DRILL PIPE Size	loint 2	IATOTAL	Doie Senoir	Fr. Drilled	Tarai Fr. Orilled	CALIPER DAT	TE	* 650475	FROM	FIFE BACK		Approved by Operator's				
100	2 1	*		200	20072			1.7.6	-			Representative		1		Weather: MAR02
												- //			-	

LL	2								M A	ILING					SH PC	HIPPING			1	MILES	DATE 5 -	2.1-81	194		DATE 8-24-81
- From	1 100	logs		Te I	Hrs. an	1 10	Wit Delli Pia	pe Stan				No	0.0	1.0			1. Sub. WI.	CAR	FI WD				TIME		
	1	7			Settom		1000 lbs.				COLLARS		7.5				100.00	1	Kell	REMA	RKS	START	\$tg#	INTYL	Tour — Midnight - 1 Specify actual hours worker
. No.	Sire	Tep	1	-IN/W.E	Serial I	Ne	Wal	2.7.M	Deltie or Co	4   0	ry. for		Hrs.	Fumo	Fump	1500	Table		8. 0	tour out Ria	110000	1/200		1.8	
1	2114	1,70	-	111.00.14	341101			1.00	ar Ee	ed /		400	Mrs.	No.	Pressure	******	Torque		-	1	OCC PARTO			2	2/1/11 2/16/1
7 .		1																		Tants Etc	1 1		330.	53	Letter Land
2 -									-											Righe	leased at 3	30 Am	7	-	Motor SCOTT HASK,
WAD	12	mn.	2 a.m.	4 0.4		PU	_	mn, 2 a	m. 4 u m	à 0.n			2 ma	2 4.00	A.q.m.	à q.m.	MOTOR H	OURS	Change		8-2481	/			FLOOR SHANF LAWS
WEIGHT	6					No. 1					No. 7	-					4		250	CARILE SUR I	AT DERRICK N	230	8:00	11	1001/6 ARY 1755
VISCOSIT		-				MODEL	5. F. W.	-		-	40051	UNER				- 1	1 21		1	3000	a oraying be	MARIO	0.12	10	Floor 502 - 80-560
GEL W.L.		F.C.	-	- 14	-	GÉNÉI	THE			-		trix			SURV	EY S Degrees	8		/			_	+	0	1 200
ADDITIVES:		7.4.	_	pH.		GENE								-	At Feet	Degrees			(						
						-								-			Weather 174		Water					1	
																	Temp.		8						Injuries:
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c. & No.	Size	Typ	in 1	411/W.C.	Serial	No.	Wal.	R.P.M	Drilli-	ed H	rs. Red	amed	Her.	Pump Ne.	Pressure	5.P.M.	Table Tarque	т.	B. C				-	-	Driller
1997					TT.																				Derrick
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3		1					W 0	1	142	1	-	-					Western	-	Neal Oil				-		
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VISCOSIT						_	1.1.4.					5005					143		250				1		Floor
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.w.L.		F.C.		pH.		GENE						1. 2-16		F	SURV	Degrees	40								
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5																									Motor
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WEIGHT						No. 1	5035				No. 2	5044					D.								Floor
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GEL							PLE	i.				SITE			SURV	EYS :	3	-							TOME
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ADDITIVES,						_					_			-	-	-	Wearher.		Water						
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PIPE Si	. 10	101	2	3	4	10		enest	tince So		Delli	ed	CALIF	ER DATE		RESULTS		FROM FIR	I RACK		Operator's Representative				MAR02-03
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																					Approved by		//		

# TEXAS OIL & GAS CORP. BILLINGS DISTRICT

4.11.17

Form 9–331 Dec. 1973	Form Approved. Budget Bureau No. 42–R1424
UNITED STATES SEP 28 1981	5. LEASE Jan Beck To
DEPARTMENT OF THE INTERIOR	14-20-0256-5439
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	Austin R. Buckles
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
Do not use this form for proposals to drill or to deepen or plug back to sidifferent eservoir. Use Form 9–331–C for such proposals.)	
Controlled Services S	8. FARM OR LEASE NAME
1. oil gas und other 557 1981	Buckles "B"
well & well other 3	9. WELL NO. #1
	10. FIELD OR WILDCAT NAME
TXO Production Corp.	East Poplar Field
•	
Suite 300, 2705 Montana Avenue, Billings, Montan	AREA
<ol> <li>LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 660 FNL, 1980 FEL</li> </ol>	Sec. 22-T28N-R51E
AT SURFACE: Sec. 22-T28N-R51E	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL:Same	Roosevelt Montana
AT TOTAL DEPTH: same	14. API NO.
6. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE.	a. All No.
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	2106' GR
SHOOT OR ACIDIZE	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is different and true vertical depths for all markers and zones pertinent.  Effective September 1, 1981, the exploration a of Texas Oil & Gas Corp. have been reorganized TXO Production Corp. As a consequence, the option changed to "TXO Production Corp.", as indicate	irectionally drilled, give subsurface locations and it to this work.)*  and production activities into a new corporate branch, berator name for this well is
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
	$C = \begin{pmatrix} 2 \\ 2 \end{pmatrix}$
SIGNED MANUEL TITLE Environmental	. Adm. DATE
APPROVED BY APPROVAL IF ANY:	

# JUBMIT IN QUADRUPLICATE) TO

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

BILLINGS OR SHELBY

- MAC 36-3.1 8(10)-\$18020 MAC 36-3.1 8(10)-\$18030 MAC 36-3.1 8(10)-\$18140 MAC 36-3.1 8(10)-\$18170 MAC 36-3.1 8(10)-\$18200 MAC 36-3.1 8(10)-\$18310 MAC 36-3.1 8(10)-\$18330 MAC 36-3.1 8(14)-\$18380

27 6

#### SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	<u> </u>
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidixe, or Cement	Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing	Supplementary Well History	
Notice of Intention to Abandon Well	Report of Fracturing	
	: Change of Operator Name	XX

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data) October 14, 1981 Following is a intention to do work on land i owned described as follows: LEASE Buckles 'B' Roosevelt E. Poplar MONTANA ..... (Field) (County) Well No. B-1 CNIVNE Sec. 22 T28N R51E MPM (m. sec.) (Township) (Range) (Meridian) LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM. The elevation of the ground or K.B. above the sea level is 2106' GL DETAILS OF PLAN OF WORK READ CAREFULLY READ CAREFULLY (State names of and expected depths to objective sands; show size, weights, and langths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

#### DETAILS OF WORK RESULT

Effective Septemberl, 1981, the exploration and production activities of Texas Oil & Gas Corp. have been reorganized into a new corporate branch, TXO Production Corp. As a consequence, the operator name for this well is changed to "TXO Production Corp."

Approved subject to conditions on reverse of form	Company TXO Production Corp.
Approved subject to conditions on reverse of form  NOV 2 3 1981  Date	By Leo A. Heath Lec C. High
By Dec ackman, Executive Secretary	Title Project Engineer 2705 Montana Avenue Suite 300
District Office Agent Title	2705 Montana Avenue Suite 300 Address Billings, MT 59101
	a source from the contract of

BOARD USE ONLY
API WELL NUMBER

NOTE:—Reports on this form to be aubmilted to the appropriate District for approva

WHEN USED AS PERMIT TO DRILL. PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT SPL DDED OR EXTENSION REQUESTED.

OVER

Locate wel. footage measurement from legal subdivisic Section) line and nearest drilling or producible well, if any.

Form No. 2 File at	Rge		·	Form No. 2 File at
Billings				Billings
or Shelby		· :		or Shelby
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Locate				
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Correctly				
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		-1"=2000 <sup>,</sup>		

#### THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

- 1. Any person, before commencing the drilling of any all or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (455.00); from thirty-five hundred and one (3,501) feet to seven thousand (1,000) feet, seventy-five dollars (475.00); aeven thousand and one (7,001) feet and deeper, one hundred fifty dollars (450.00).
- 2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana.
  - 8. Cable tool operators must construct an adequate sump to contain all mud and water balled from the hole.
- 4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.
- 5. Any production casing must be cemented unless a furniation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.
- 6. All production casing must be tested by balling or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.
- ?. Any contemplated change in status of a well such as to plug and aliandon, deepen, plug back, redrill, siter casing, etc. must be presented on Form No. 2 for approval by the Board prior to commencement of work.
- 8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.
- 9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.
- 10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 230 and one copy of all cementing records as furnished by the cementing company and described in Rule 234.
- 11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, is well as regulations prescribed in lieu thereof.

Backle 81

BUCKLE B # |
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Sepia \_\_\_
Blue In\_\_\_

MAR-324 MAR02-0324

## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

12	345678	9
	. 4	707.

1234567	Form Approved.
0 1973	Form Approved.  Budget Bureau No. 42-R1424
DEPARTMENT OF THE INTERIOR Manager	5 . 5005
DEPARTMENT OF THE INTERIOR MANY	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
GEOLOGICAL SURVEY	14720-0256-5439 Ft. Peck Pos. IFTNDIAN, ALLOTTEE OR TRIBE NAME
GEOLOGICAL SURVEY /A MOS CAROL	Austin R. Buckles
	7., UNIT AGREEMENT NAME
SUNDRY NOTICES AND REPORTS ON WELLS	- 1 AGUSTAICH HAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME
	Buckles
1. oil gas control well other	9. WELL NO.
2. NAME OF OPERATOR	"B" #1
TXO Production Corp.	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	East Poplar Field
1800 Lincoln Center Bldg., Denver, CO 80264	11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA
below.)	Sec. 22, T28N-R51E
AT SURFACE: 660' FNL & 1980' FEL (NW NE)	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: Same	Roosevelt Montana
AT TOTAL DEPTH: Same	14. API NO :
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	25-085-21313
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB. AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	2106' GL , 2118' KB
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:  TEST WATER SHUT-OFF	
FRACTURE TREAT	
SHOOT OR ACIDIZE	
REPAIR WELL	(NOTE: Report results of multiple completion or zone
PULL OR ALTER CASING   MULTIPLE COMPLETE   .	change on form 9-330.)
CHANGE ZONES	
ABANDON° 🕅	
(other)	
TA DESCRIPE PROPOSED OF COMPLETED OF DATIONS (C)	
<ol> <li>DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statingluding estimated date of starting any proposed work. If well is d</li> </ol>	e all pertinent details, and give pertinent dates, irectionally drilled, give subsurface locations and
measured and true vertical depths for all markers and zones pertiner	nt to this work.)*
Due to unconomic production, TXO Production Co	
above well. During plugging operations, the e	existing perforations
will be squeezed and the following plugs will	De Set.
Set 35 sxs cmt plug above perfs	
Set cmt plug 50' in & 50' out of prod. cs	sg stub.
Set cmt plug 50' in & 50' out of surf csg	
Set cmt plug 25' above & 25' below Judith	i Kiver.

Set 15 sxs cmt plug @ surface.

Verbal approval was given by Don Miller at the BLM's Miles City office on May 21, 1984.

	•		
Subsurface Safety Valve: Manu. and Type :		Set @	Ft.
18. I hereby certify that the jorgeoing is tr	ue and correct		
GIGNED M. David Clouatre	mice Orlg. & Prod. Engineer	June 1, 1984	
APPROVED BY	(This space for Federal or State office use)  TITLE ANM-MINERALS DAT	JUN 1 3 1984	
CONDITIONS OF APPROVAL IE ANY	meemunicumature on	·	

MAR02-0325

#### P & A - MONTANA

BUCKLES "B" #1 Roosevelt Co./22-28N-51E

- 05/23/84 5840' PBTD, dig out valves. RU Halliburton. Pump 40 bbls of produced wtr dn tbg. Had 1800# @ 4 BPM. Pump 5 bbls fresh wtr. Pump 25 sxs Cl "G" cmt w/ .2% HR-8 retarder. FLush w/ 23 bbls produced wtr. Start to stage cmt for squeeze. Dspl w/ 23.5 bbls total @ end of squeeze. SWI w/ 1000# on tbg. Wait 4 hrs. TP was 1250#. Bled tbg press to 500#. SIFN. DW: 2050. CW: 2050.
- 05/24/84 5840' PBTD, SITP 760#, SICP 790#. Open annulus & bled off press. Tbg press bled off @ same time. Had no indication of fluid entry. MI & RU N. L. Well Service Rig #169. ND wellhead. NU BOP. TOOH w/ 186 jts 2-3/8", 4.7#, J-55, EUE tbg, model "R" single grip pkr, 1 jt 2-3/8" tbg. TIH w/ tbg. Spot 35 sxs Cl "G" cmt from 5790-5340'. TOOH & LD 25 jts tbg. SWI. SDFN. DW: 4035. CW: 6085.
- 05/26/84 5840' PBTD, pull csg out of slips. NU BOP. RU Wisco csg crew. LD 4000' of 4-1/2" csg. RD csg crew. TIH w/ 2-3/8" tbg to 2450'. RU Halliburton. Pump 40 sxs Cl "G" cmt from 2450-2350'. TOOH & LD tbg to 1200'. Pump 35 sxs cmt from 1200-1100'. TOOH & LD tbg to 950'. Pump 50 sxs cmt from 950-800'. TOOH & LD tbg. Pump 15 sxs cmt @ surf. RD Halliburton. ND BOP. RD N.L. & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 14,055. CW: 28,337.

1,344	~ <b>/</b> 8,9
	Form Approved. Budget Bureau No. 42-R1424
DEPARTMENT OF THE INTERIOR METAL	5. LEASE  199 14-20-0256-5439 Ft. Peck  190 24-20-0256-5439 Ft. Peck  190 24-20-0256-5439 Ft. Peck  190 24-20-0256-5439 Ft. Peck  190 24-20-0256-5439 Ft. Peck  190 25-0256-5439 Ft. Pe
GEOLOGICAL SURVEY	Austin R Buckles
SOMME MOTICES AND REPORTS ON MELLS	c.
(Do not use this form for proposals to drill or to deepen or plug back to a differ reservoir. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME
1. oil gas other well other	Buckles  9. WELL NO.
2. NAME OF OPERATOR TXO Production Corp.	"B" #1  10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR 1800 Lincoln Center Bldg., Denver, CO 80264	East Poplar Field  11. SEC., T. R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space below.)	<del></del>
AT SURFACE: 660' FNL & 1980' FEL (NW NE)	12. COUNTY OR PARISH 13. STATE
AT TOTAL DEPTH: Same	Roosevelt Montana  14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE REPORT, OR OTHER DATA	25-085-21313 15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	2106' GL. 2118' KB
TEST WATER SHUT-OFF	
REPAIR WELL  PULL OR ALTER CASING	(NOTE: Report results of multiple completion or zone change on Form 9-330.)

24567

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

the filuacing operations

#### CONDITIONS OF APPROVAL:

MULTIPLE COMPLETE CHANGE ZONES ABANDON° (other)

Please be advised that final abandonment shall not be approved until the surface reclamation work required by the approved drilling permit or approved subsequent report of abandonment notice has been completed to the satisfaction of the surface management agency. Upon completion of reclamation work, the lessee or operator shall notify the Bureau of Land Management, Miles City District, Division of Minerals via Sundry Notice (form 3160-5) when the location is ready for inspection as per Operating Order # 1, Section V. Bond liability for the location shall not be terminated until approval of final abandonment by the Miles City BLM.

SIGNED M. David Clouatre	u a rrog, <u>tng</u> i se	er June 1, 1984
	Federal or State office use) ADM-MINERALS	ATEJUN 1 3 1984

**MAR-327** 



### TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

June 1, 1984

MONTANA BOARD OF OIL & GAS CONSERVATION 2535 St. Johns Avenue Billings, Montana 59102

RE: Buckles "A" #1, "B" #1, "SWD" #1
Section 22, T28N-R51E
Roosevelt County, Montana

Dear Sirs:

Attached please find Sundry Notices and Well History's on the above referenced wells.

Please call me at this office if you have any questions about these wells.

Sincerely,

TXO PROPOCTION CORP.

M. David Clouatre

Drilling & Production Engineer

Encl. MDC/tlw

MAR02-0328

SURSIDAN OF TEXAS
OIL & GAS YOUR

MAR-328

Form No. 2

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

#### (SUBMIT IN QUADRUPLICATE)

TO

ARM 36.22.307 ARM 36.22.1003 ARM 36.22.601 ARM 36.22.1004 ARM 36.22.602 ARM 36.22.1013

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

ARM 36.22.603 ARM 36.22.1301 ARM 36.22.604 ARM 36.22.1306 ARM 36.22.605 ARM 36.22.1309

BILLINGS OR SHELBY

#### SUNDRY NOTICES AND REPORT OF WELLS

Subsequent Report of Shooting, Acidizing, Cementing Subsequent Report of Altering Casing Subsequent Report of Redrilling or Repair Subsequent Report of Abandonment
Subsequent Report of Redrilling or Repair
Subsequent Report of Abandonment
Supplementary Well History
Report of Fracturing

	į ·	- 1)		1 1
(indicate Ab	eve by Check Mark	Nature of Report, Nouce,	or Other Data)	
		Ma	y 21	
Following is a Inotice of intention to d	o work ( on land	•		,
			se <u>Buc</u>	kles
MONTANA . RO	osevelt		Fast Pool	ar .
MONTANA RO				
Well No	. 22	28N	51E	
The well is located 660 ft. fr			rom X X fline of S	ec22
LOCATE WELL SITE ACCURATELY O	N PLAT ON BAC	K OF THIS FORM.		• •
The elevation of the ground or K.B. above	e the sea level is .	2106'		
READ CAREFULLY	DETAILS OF	F PLAN OF WORK		READ CAREFULLY
(State names of and expected depths to of important proposed work, particularly all det	dective sunds; show a nils of Shooting, Aci	eize, weights, and lengths dizing, Fracturing.)	of proposed casings, cen	
		LS OF WORK		·
Due to uneconomic the above well. During the will be squeezed and the	ie plugging op	erations, the ex	orp. proposes to cisting perfora	o P&A tions
Set 35 sxs cmt plu Set cmt plug 50' i	n & 50' out o	f prod csg stub.		,
Set cmt plug 50' i Set cmt plug 25' a Set 15 sxs cmt plu	bove & 25' be	f surf csg shoe. low Judith River -	· 	MAR02-0329
Verbal approval wa of Oil & Gas Conservation	s given by Cl in Billings o	n 5-21-84.		
Approved subject to conditions on reve	rse of form	Company	XO Production (	Corp.
Date	•••••	By M Uav	I Sociation de l'Ouatre	
Ву			ing & Production	
District Office Agent	Title	1800 L Address Denk	incoln Center E ver, Colorado S	31 dg 30264
BOARD USE ONLY				TO A TO ESTABLISH SHOWS I HAVE ARRESTED AND AN AN AN AND AND AN AND AN



NOTE:—Reports on this form to be submitted to the appropriate District for approval

DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL, UPON WRITTEN
REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

Form No. 2

NOTICE THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD. (SUBMIT IN QUADRUPLICATE)

ARM 36.22.307 ARM 36.22.1003 ARM 36.22.601 ARM 36.22.1004 ARM 36.21,602 ARM 36.22.1013

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

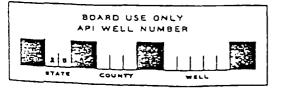
ARM 36.22.603 ARM 36.22.1301 ARM 36.22.604 ARM 36.22,1306 ARM 36.22.605 ARM 36.22.1309

BILLINGS OR SHELBY

#### SUNDRY MOTICES AND REPORT OF WELLS

Notice of Intention to Pull or Alter Casing Notice of Intention to Abandon Well	 Report of Fracturing	<del>                                     </del>
Notice of Intention to Shoot, Acidize, or Cement	 Subsequent Report of Abandonment	XXXXX
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redriffing or Repair	
Notice of Intention to Test Water Shut-off	Subsequent Report of Allering Casing	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Drill	Subsequent Report of Water Shut-off	

Notice of Intention to Abandon Well		Report of Fracturing		- ·
	: .			
(Indicate Above by	Check Mark Na	ture of Report, Notice, or Ot		
		May 2	29	
Following is a Inotice of intention to do work report of work done	k on land	) owned described as	follows:	
		LEASE	Buckles	***************************************
MONTANA Rooseve	1 t	······	East Popla	
(State)		(County)	•	Field)
Vell No. "B" #1 22		· 28N	51E	(Meridian)
The well is located660			• •	
OCATE WELL SITE ACCURATELY ON PLA	• •	•	•	•
The elevation of the ground or K.B. above the	sea level is	2106'	*******	
READ CAREFULLY	ETAILS OF	PLAN OF WORK		CAD CAREFULLY
(State names of and expected depths to objective important proposed work, particularly all details of	sands; show siz Shouting, Acidi	e, weights, and lengths of projecting, Fracturing.)	wised cusings, cementing	g points, and all other
	DETAILS	OF WORK		
The well was plugged o operations is attached. The f 1. 25 sxs cmt through	n 5-25-84. Ollowing i	The well history s a summary of the	of the pluggir cement plugs:	ig
2. 35 sxs cmt 5790'-5		oz 3000 j.	•	:
3. 25 sxs cmt 4300'-4 4. 40 sxs cmt 2450'-2	200' (50' 350'.	below & 50' above 4	½" csg stub).	
5. 35 sxs cmt 1200'-1 6. 50 sxs cmt 950'-80 7. 15 sxs cmt 0 surfa	0' (25' be	below & 50' above 8 low & 25' above Juc	8-5/8" csg shoe lith River).	·).
Casing was cutoff belo	w surface.		3.5	
N.			MLA	AR02-0330
Approved subject to conditions on reverse of	form	Company TXO F	roduction Corp	) .
Date		By M Navi	Couatu d Clouatre	
By District Office Agent Title	e	TitleDr.il.ling8 1800 Linco	Production Er	igineer laing
		Address Denve	r. CO 80264	-



NOTE:-Reports on this form to be submitted to the appropriate District for approval DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL, UPON WRITTEN REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

#### P & A - MONTANA

BUCKLES "B" #1
Roosevelt Co./22-28N-51E

- 05/23/84 5840' PBTD, dig out valves. RU Halliburton. Pump 40 bbls of produced wtr dn tbg. Had 1800# @ 4 BPM. Pump 5 bbls fresh wtr. Pump 25 sxs Cl "G" cmt w/ .2% HR-8 retarder. FLush w/ 23 bbls produced wtr. Start to stage cmt for squeeze. Dspl w/ 23.5 bbls total @ end of squeeze. SWI w/ 1000# on tbg. Wait 4 hrs. TP was 1250#. Bled tbg press to 500#. SIFN. DW: 2050. CW: 2050.
- 05/24/84 5840' PBTD, SITP 760#, SICP 790#. Open annulus & bled off press. Tbg press bled off @ same time. Had no indication of fluid entry. MI & RU N. L. Well Service Rig #169. ND wellhead. NU BOP. TOOH w/ 186 jts 2-3/8", 4.7#, J-55, EUE tbg, model "R" single grip pkr, 1 jt 2-3/8" tbg. TIH w/ tbg. Spot 35 sxs Cl "G" emt from 5790-5340'. TOOH & LD 25 jts tbg. SWI. SDFN. DW: 4035. CW: 6085.
- 05/26/84 5840' PBTD, pull csg out of slips. NU BOP. RU Wisco csg crew. LD 4000' of 4-1/2" csg. RD csg crew. TIH w/ 2-3/8" tog to 2450'. RU Halliburton. Pump 40 sxs Cl "G" cmt from 2450-2350'. TOOH & LD tbg to 1200'. Pump 35 sxs cmt from 1200-1100'. TOOH & LD tbg to 950'. Pump 50 sxs cmt from 950-800'. TOOH & LD tbg. Pump 15 sxs cmt @ surf. RD Halliburton. ND BOP. RD N.L. & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 14,055. CW: 28,337.

## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

		Sudget Bureau No. 42-R1424
	<b>5</b> .	LEASE
		14-20-0256-5439 Ft. Peck
	5.	IF INDIAN, ALLOTTEE OR TRIBE NAME
		Austin R. Buckles
	7.	UNIT AGREEMENT NAME
t		
_	8.	FARM OR LEASE NAME
		Buckles
	9.	WELL NO.
		"B" #1 ·
	10.	FIELD OR WILDCAT NAME
		East Poplar Field
	11.	SEC., T., R., M., OR BLK. AND SURVEY OF
7		AREA VALUE OF THE STATE OF THE
		Sec. 22, T28N-R51E
	. 12.	COUNTY OR PARISH 13. STATE
		Roosevelt Montana
	14.	API NO.

SUNDRY NOTICES AND REPORTS ON WELLS (Co not use this form for proposals to drift or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.) 1. oil gas XX other well well 2. NAME OF OPERATOR TXO Production Corp. 3. ADDRESS OF OPERATOR 1800 Lincoln Center Bldg., Denver, CO 80264 4. LOCATION OF WELL (REPORT LOCATION CLEARLY, See space 17 below.) AT SURFACE: 660' FNL & 1980' FEL (NW NE) AT TOP PROD. INTERVAL: Same AT TOTAL DEPTH: .Same 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE. 25-085-21313 REPORT, OR OTHER DATA 15. ELEVATIONS (SHOW DF, KDB, AND WD) 2106' GL 2118' KB REQUEST FOR APPROVAL TO: SUBSECUENT REPORT OF: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (NOTE: Report results of multiple completion or zone PULL OR ALTER CASING change on Form 9-330.) MULTIPLE COMPLETE CHANGE ZONES ABANDON\* (other)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The well was plugged on 5-25-84. The well history of the plugging operations is attached. The following is a summary of the cement plugs:

- 1: 25 sxs cmt through perfs (5802'-5808').
- 35 sxs cmt 5790'-5340'
- 25 sxs cmt 4300'-4200' (50' below & 50' above  $4\frac{1}{2}$ " csq stub)..
- 40 sxs cmt 2450'-2350'
- 35 sxs cmt 1200'-1100' (50' below & 50' above 8-5/8" csg shoe)..
- 50 sxs cmt 950'-800' (25' below & 25' above Judith River).
- 15 sxs cmt @ surface.

Casing was cutoff below surface.

MAR02-0332

Subsurface Safety Valve: Manu. and			Set @		.Ft.
18. I hereby certify that the toregoin	ng is true and correct		•		
SIGNED M. David Clouatre	TITLE Drlg & F	rodEngiaeer_	June 1.	1984 .	
	(This space for Federal or S	State office use) -		,	_
APPROVED BY	TITLE	DATE			

#### P & A - MONTANA

BUCKLES "B" #1
Roosevelt Co./22-28N-51E

- 05/23/84 5840' PBTD, dig out valves. RU Halliburton. Pump 40 bbls of produced wtr dn tbg. Had 1800# @ 4 BPM. Pump 5 bbls fresh wtr. Pump 25 sxs Cl "G" cmt w/ .2% HR-8 retarder. FLush w/ 23 bbls produced wtr. Start to stage cmt for squeeze. Dspl w/ 23.5 bbls total @ end of squeeze. SWI w/ 1000# on tbg. Wait 4 hrs. TP was 1250#. Bled tbg press to 500#. SIFN. DW: 2050. CW: 2050.
- 05/24/84 5840' PBTD, SITP 760#, SICP 790#. Open annulus & bled off press. Tbg press bled off @ same time. Had no indication of fluid entry. MI & RU N. L. Well Service Rig #169. ND wellhead. NU BOP. TOOH w/ 186 jts 2-3/8", 4.7#, J-55, EUE tbg, model "R" single grip pkr, 1 jt 2-3/8" tbg. TIH w/ tbg. Spot 35 sxs Cl "G" emt from 5790-5340'. TOOH & LD 25 jts tbg. SWI. SDFN. DW: 4035. CW: 6085.
- 05/26/84 5840' PBTD, pull csg out of slips. NU BOP. RU Wisco csg crew. LD 4000' of 4-1/2" csg. RD csg crew. TIH w/ 2-3/8" tbg to 2450'. RU Halliburton. Pump 40 sxs Cl "G" cmt from 2450-2350'. TOOH & LD tbg to 1200'. Pump 35 sxs cmt from 1200-1100'. TOOH & LD tbg to 950'. Pump 50 sxs cmt from 950-800'. TOOH & LD tbg. Pump 15 sxs cmt @ surf. RD Halliburton. ND BOP. RD N.L. & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 14,055. CW: 28,337.

A: 2

-MONTHLY REPORT OF OPERATIONS - Montana Buckles "B" #1

, MAR02-0343

M18A-154

#### Lease No. 23-00543 UNITED STATES DEPARTMENT OF THE INTERIOR Communitization Agreement No. \_\_\_\_\_ Field Name EAST POPLAR GEOLOGICAL SURVEY (FORM 9-329) NA Unit Name ... (2/76)42-RO 356 Participating Area. County \_\_\_\_ROOSEVELT State MT MONTHLY REPORT Operator TXO PRODUCTION CORP OF □ Amended Report **OPERATIONS** The following is a correct report of operations and production (including status of all unplugged wells) for the mont: JULY 1982 (See Reverse of Form for Instructions) This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report car result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and for feit the bond (30 CFR 221.53). ·MCF of · Barrels · Barrels Remarks TWP RNG Well Days Well Sec. & of Water of Oil Gas V. of V. Status Prod. No. 0 0 0 0 B-1SENW22 28N 51E OSI MAR02-0344 \*If none, so state. DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis) Oil & Condensate Gas Water (BBLS) (MCF) (BBLS) xxxxxxxxxxxxxx \*On hand, Start of Month 0 \*Produced

XXXXXXXXXXXXXXX 0 \*Sold XXXXXXXXXXXXXXXX Ç **\*\*\*** XXXXXXXXXXXXXXX \*Spilled or Lost xxxxxxxxxxxxx xxxxxxxxxxxxxx \*Flared or Vented xxxxxxxxxxxxxx \*Used on Lease 7 \*Injected \*\*\*\*\*\* XXXXXXXXXXXXXXXX \*Surface Pits 0 \*Other (Identify) Ð XXXXXXXXXXXXXXXX \*On hand, End of Month 0 XXXXXXXXXXXXXXX \*API Gravity/BTU Content P.O. BOX 1165 WILLISTON, Authorized Signature: Address: \_ Title: PRODUCTION DEPARTMENT of\_

	RTMENT O			IOR		Communitization Agreement No.							
GEOLOGICAL SURVEY (FORM 9-325)						Field Name <u>EAST PG</u> AR							
		76) 42-RO 3				Unit Name							
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it the	bond (30 CFR			Well Status	Days Prod.	(j)), shutting down		MCF of	*Barrels of Water	Remark			
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DEPARTMENT OF THE INTERIOR  GEOLOGICAL SURVEY  (FORM 9-329)						Communitization Agreement No.							
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			0.D.T			County	::::::::::::::::::::::::::::::::::::::		St	tate Montana			
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### UNITED STATES Lease No. DEPARTMENT OF THE INTERIOR Communitization Agreement East Poplar Field GEOLOGICAL SURVEY Field Name -(FORM 9-329) NA Unit Name \_ (2/76)NA OMB 42-RO 356 Participating Area Roosevelt Montana MONTHLY REPORT Operator TXO Production Corn OF □ Amended Report **OPERATIONS** The following is a correct report of operations and production (including status of all unplugged wells) for the month \_\_, 19<u>\_\_\_82</u>\_ (See Reverse of Form for Instructions) This report is required by law (30 U.S.C, 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and lorfeit the bond (30 CFR 221.53). \*Barrels \*MCF of \*Barrels RNG Well Days Remarks Sec. & 4 of 4 of Water Status Prod. of Oil Gas No. 51E OSI 0 B-1 SENW 22 28N MAR02-0348 \*If none, so state. DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis) Oil & Condensate Gas Water (BBLS) (MCF) (BBLS) xxxxxxxxxxxxxx XXXXXXXXXXXXXXX \*On hand, Start of Month \*Produced XXXXXXXXXXXXXXXXX \*Sold XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX \*Spilled or Lost XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX \*Flared or Vented XXXXXXXXXXXXXXXX \*Used on Lease \*Injected XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX \*Surface Pits \*Other (Identify) \*\*\*\*\* XXXXXXXXXXXXXXXX \*On hand, End of Month XXXXXXXXXXXXXXXX \*API Gravity/BTU Content 2705 MontanaAve. Ste 300 Billings, Authorized Signature: Address: MT 591( . 1 Title: Drilling Engineer

23-005439

	UNITED	STAT	ES		. 1	.ease No	23-003		.***	
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(	GEOLOGIC	AL SU 9-329)	RVEY		F	ield Name _	East	Poplar	Field	
		776) ·			į	Jnit Name	<u>NA</u>		<del></del>	
	OMB	42-RO 3	356		. F	Participating A	Area	NA		
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	OPERA		5		C	Amended F	Report			
The fo				rt of oners	ations and	I production (i	ncludin	e status e	of all unpluesed	i wells) for the month
	February		., 19			, production (		, J. L. L. J	o. a ap.aggot	2 wendy for the month
				(	See Reve	rse of Form for	Instruc	ctions)		
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	the assessme			amages (30 (	CFR 221.54	(j)), shutting down	operation	ns, or basis	for recommendatio	n to cancel the lease and for-
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•Prod		01 14101	11(1)		,	<del></del>				
*Sold	uceu ;	•			•				<del></del>	XXXXXXXXXXXXXXX
	ed or Lost	`				<del> </del>		****	XXXXXXXXXX	XXXXXXXXXXXXXXX
•	d or Vente	н	;	•	,	xxxxxxxxxx	XXXXX	ANAAA	**********	XXXXXXXXXXXXXXX
	on Lease	u .			,				<del></del>	XXXXXXXXXXXXXXX
*Injec					,		<del></del>			
•	ice Pits			•		xxxxxxxxxx	xxxxx	XXXXXX	XXXXXXXXXX	
	r (Identify)									<del></del>
	and, End o		th					XXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXXXX
	and, End o Gravity/BT		,	1	/					XXXXXXXXXXXXXX
	rized Sign		~KI	10,		1 0 Add	 ress: _	2705 M	ontana Ave.	
Title:	T			r		~~~ ~~~		Page	1 of	1 Billings, MT
					V			5		591

**43-005439** 

	UNITED	CTATI	FC		ı	.ease No	23-00	5439 .		·
DEPA	RTMENT O			RIOR	•	Communitization	on Agr	eemeii	No	
	GEOLOGIC				F	ield Name	East	Poplar	Field	
•		9-329) (76)				Jnit Name			٠	
	OMB (2/	42-RO 3	56		F	Particinating A	rea	NA		
					. '	County Roos	evelt		St	ate Montana
	MONTHLY		ORT			Operator				
		)F				Amended Re			<del></del>	
	OPERA								<b>.</b>	
					itions and	production (in	cluding	g status of	l all unplugged	wells) for the month
0!1	lanuary _		., 19_6		See Reve	rse of Form for	Instruc	tions)		•
				•					and the terms of th	
result in	ort is required the assessme	nt of liqu	idated d	189, 30 0.5.C amages (30 <b>0</b>	359, 25 G. CFR 221.54	(j)), shutting down	operation	rk 221.60), is, or basis t	or recommendation	ne lease. Failure to report can n to cancel the lease and for-
feit the	bond (30 CFR	221.53)			···	<u>,</u>				·
Well	Sec. &	TWP	RNG	Well	Days Prod.	*Barrels of Oil	•	MCF of	*Barrels of Water	Remarks
No.	% of %			Status	Proc.	81 011	<del> </del>	003	<u> </u>	<del></del>
B-1	SEWN 22	28N	51E	OSI	}	0.	}			
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		ł			}					MAR02-0350
				·***•1f	none, so	state.				
DISPO	SITION OF	FPRO	DUCTIO			pating Area, o	r Com	munitize	d Area basis)	
						Oil & Conden	sate		Gas	Water
						(BBLS)		(	MCF)	(BBLS)
*On h	and, Start	of Mo	nth					xxxxx	xxxxxxxxx	xxxxxxxxxxxxxxx
•Prod	•									
*Sold	\				٠,					****
	ed or Lost							xxxxx	xxxxxxxxx	*****
•	ed or Vente	d			•	xxxxxxxxxx	xxxxx			******
	i on Lease									******
*Injec										
_	ce Pits					xxxxxxxxxxx	XXXX	xxxxxx	xxxxxxxx	
	r (Identify)	١							•	

\*On hand, End of Month

Authorized Signature:

\*API Gravity/BTU Content

Title: Drilling Engineer

\_\_\_\_of \_\_1\_\_\_Billings, ! MAR-350

Address: 2705 Montana Ave.

XXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXX

## UNITED STATES Lease No. DEPARTMENT OF THE INTERIOR Communitization Agreement<sup>1</sup> East Poplar Field **GEOLOGICAL SURVEY** Field Name (FORM 9-329) Unit Name -NΔ (2/76)42-RO 356 OMB -Participating Area. Roosevelt Montana State MONTHLY REPORT ·· , . Operator TXO Production Corn OF □ Amended Report **OPERATIONS** The following is a correct report of operations and production (including status of all unplugged wells) for the month \_.19\_81 (See Reverse of Form for Instructions) This report is required by law (30 U.S.C, 189, 30 U.S.C, 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease, Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53). Sec. & RNG Well Days ·Barrels ·MCF of \*Barrels Remarks Well 4 of 4 of Oil of Water No. Status Prod. Gas B-1 SENW 22 28N 51E OSI 0 MAR02-0351 \*If none, so state. DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis) Oil & Condensate Gas Water . (BBLS) (MCF) (BBLS) XXXXXXXXXXXXXXXX \*On hand, Start of Month XXXXXXXXXXXXXXX \*Produced \*Sold XXXXXXXXXXXXXXXX \*Spilled or Lost XXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXX \*Flared or Vented XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX \*Used on Lease \*\*\*\*\*\* "Injected

XXXXXXXXXXXXXXXX

\*Surface Pits \*Other (Identify)

\*On hand, End of Month

\*API Gravity/BTU Content Authorized Signature:

Title: Drilling Enginee:

Address: 2705 Montana Ave. 5910 1 \_\_ of

xxxxxxxxxxxxx

XXXXXXXXXXXXXXX

XXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXX

Ste 300 Billings. MT

•	UNITED	CTATI	<b>.</b> .			Lease No2	3-005439		
DEPAR	RTMENT O			RIOI			n Agreem	No.	!
	GEOLOGIC.	AL SU		•		Communitization Field Name	ast Popl	ar Field	1
		9-329) 76)				Unit NameNA			
	. OMB	42-RO 3	156	•		Participating Are	374		
	MONTHL	/ DED	דמר			CountyRoose	velt	S1	tate Montana
		; KLF( )F	ואכ			Operator <u>TXO</u>	Product	ion Corp	
	OPERA		5			☐ Amended Rep	port		•
The fo	ollowing is	a corre	ct repor	rt of opera	itions ar	d production (inc	luding state	us of all unplugge	d wells) for the month
of	November		., 19						
				,		erse of Form for la		-	
									he lease. Failure to report care in to cancel the lease and for
	bond (30 CFR								<u> </u>
Well No.	Sec. &	TWP	RNG	Well Status	Days Prod.	*Barrets of Oil	"MCF of Gas	*Barrels of Water	Remarks
B-1	SENW 22	28N	SIE	OSI		0			
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	}							•	
								٠	MAR02-0352
	I		L	*1f	none s	o state.			
DISPO	SITION OF	PROD	DUCTIO				Communi	tized Area basis)	<b>(</b>
				<del></del>		· · · · · · · · · · · · · · · · · · ·			
						Oil & Condensa	ate	Gas .	Water -
						(BBLS)		(MCF)	(BBLS)
	and, Start	of Moi	nth			<del></del>	<u>xx</u>	(XXXXXXXXXXXXXX	xxxxxxxxxxxxx
*Prod	,	•			`	<del></del>			*************
*Sold	ed or Lost							×××××××××××××××××××××××××××××××××××××××	XXXXXXXXXXXXXXX
	d or Vente	А	,			**********			XXXXXXXXXXXXXXXX
	on Lease	u			•		•		xxxxxxxxxxxxx
*Injec									
-	ce Pits					xxxxxxxxxxx	xxx xxx	xxxxxxxxxxx	
	r (Identify)	ı							
	and, End g			, 1	,		<u> </u>	xxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	Gravity∕BŤ		tent	1 1	V	<del></del>		- \	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Autho	rized Sign	ature:		<del>7 . ( ) .</del>	119	Addres	ss: <u>270</u>	<u>5 Montana Ave.</u>	Ste 300 Billings

### Lease No. \_\_23-005439 UNITED STATES DEPARTMENT OF THE INTERIOL Communitization Agreemu **GEOLOGICAL SURVEY** East Poplar Field Field Name. (FORM 9:329) . N/A (2/76)Unit Name \_\_\_ OMB 42-RO 356 Participating Area Noosevelt State \_\_Montana County MONTHLY REPORT Operator \_\_TXO Production Com OF **OPERATIONS** ☐ Amended Report The following is a correct report of operations and production (including status of all unplugged wells) for the month of October 10 81 19 81 (See Reverse of Form for Instructions) This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can

result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
 B-1	SENW 22	28N	SLE	OSI	·	0			
•				·			·		
	:								
•					,				
:						٠ -			
		•	٠	_					
				·					MAR02-0

\*If none, so state.

	Oil & Condensate (BBLS)	Gas . (MCF)	Water (BBLS)
*On hand, Start of Month		xxxxxxxxxxxxxx	xxxxxxxxxxxxxx
*Produced	\ <u></u>		
•Sold \	<del></del>		XXXXXXXXXXXXXXXX
*Spilled or Lost		xxxxxxxxxxxxxxx	xxxxxxxxxxxxx
•Flared or Vented	xxxxxxxxxxxxxxxx.		XXXXXXXXXXXXXXX
*Used on Lease		•	XXXXXXXXXXXXXXX
•Injected			
*Surface Pits	<u> </u>	xxxxxxxxxxxxx	
Other (Identify)			
On hand, End of Month		xxxxxxxxxxxxxx	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content / / /			XXXXXXXXXXXXXXX
Authorized Signature:		705 Montana Ave. S	te. 300 Billings, 1 5910
Title: <u>Drilling Engineer</u>		Page of .	1



# GAY - Buckles B-1. 16

# 303/893-8138 DENVER, COLORADO

Location—Sec m Twp m x Rge		-7 (19 V-1) (	Co, WINTANA	St
Elevation GLKBSpud	08/n1/81	Finish_		
Total DepthInterva	I Logged			·
Pump Stroke-Length-Pump #1_	16"	Punnp #2	14"	·
Pump Liner-Diameter-Pump #1_	ę w	Pump #2	<u>5</u> ; e	
LOGGING GEOLOGISTS	COMPANY	AND RIG P	ERSONNE	L
	Company Geo	logist <u>rik, 44:</u>	: <u>\</u>	
	Company Fore	man <u>44:7 by</u> 9	<u> </u>	
	Drilling Compa	iuk Taur Zaitres.	ing.	#_:_
	Tool Pusher	74.827 11.844.2 A		
	Type of Mac	TALE/TALL'S ARM		
	Typis of Wide			

HOLE SIZE	DEPTH
6 ./m	32. = 31.0

CASING RECORD													
Death	Size	Date											
		·-· · · · · · · · · · · · · · · · · · ·											

	SYN	1BOLS		ABBREVIATIONS					
	ANHYDRITE	В	BENTONITIO	G - Comedias Gas G - Conden Gal					
	CALCITE	T	CALCAREOUS	DEV Survey DS1 Drill Stem Fest					
Δ <sup>Δ</sup> Δ <sup>Δ</sup>	CHERT		CARBONACEOUS	(A) - Koz Chrome (A) - Chagen Aller Ind					
ૢૺ૽ૢ૽૾ૢૺ૾	CONGLOMERATE	7?	CAVINGS	NR =New Bit NCB+ New Core Bit					
	CO.AL		DOLOMITIC	PP- Punip Pressure RPM Revolutions/Minute					
	DOLOMITE		FOSSILS	5ºM·-S'inkes/Minute TG—Trin Gas					
	GYPSUM	$\sim$	GLAUCONITIC	WOB—Weight On Ait					
	LIMESTONE	$\boxtimes$	NO SAMPLES						
ŢŢ	MARLSTONE		OOLITES	<b>#</b> _					
Р	PYRITE		SILICEOUS	PACKER INTERVAL DST'D					
+++	SALT	<u>}?</u>	VERY POOR SAMPLES						
	SANDSTONE		STRINGERS	AM'T OF CORE					
	SHALE			RECOVERED CORED					
	SILTSTONE			AM'T OF CORE					

Gas	Chromatograph	(Attenuation scale is 100X)	(1%) (10%) 100u 100u		ine inc4—isobotiane	ne Bulane
	Š	Attenua	(.1%) 10u	- <u>}</u>	C2—Ethane	C3—Propane
	(	<u>ິ</u>	 I (	> 3	-	
Gas	X100)	00 units	TO00 UNITS	10%	-x-x-x-	
Continuous Mud Gas	(Attenuation scale is X100)	1% by vol. C1 in air = 100 units	100 UNITS	-°1 %1	-X-X-XCuttings GasX-X-X-	1
ŏ	(Att	1%	10 UNITS	- <sup>1</sup> -	-x-x-x-	
	Lithology	Descriptions,	Remarks	and	Observations	
			dqs.			
<b></b>	а О	ш	NTEF	<b>-</b>	I	
	Rate of Penetration	14/16		7 130		
	Rate of Pe		min/ft 🗵	<b>\</b>		

S O III	OPERAT		1553 H × 6			WF			G <u>"</u>					X
RATE OF I	PENETRATION  1/hr	D E	GRAPHIC	1	CONTIN				up scale X100)	S H	GAS	CHRO	150-BU	GRAPH
Δ	DPU	LSO H	LITHO	AND REMARKS	-x-x-x	-X-	CUTTING C	713	102 -x-x-x-x-	O W TFG	ETHAN	E-C2 NE-C3 10 <sup>1</sup> U		ANE-nC4
				13, it gy brn, brn, crp -micxln, mod ind, arg col, p intxln \$, neut							ゔ			
> w	08 35 600	60		La, le-dk gy brn, fn xln micxln, p-mod ind, mod								/		
RI	E 60	so		-v ark, vp intxln Ø, LS, lt-m ky brn, mic-vf										
<b>\}</b>				xln, mod idn, arg, tr dism pyr, vp intxln ∉ MSFOC										
		-600		LS, It-m gy brn, mic-vf xln, mod ind, mod-v arg tr dism pyr, yel min fior, n cut										
	10 15 20	70		LG, lt-m gy hrn, micrln on mod ind, mod-v arg, vp	2%	1 0 U		· 100U	1000U 10% CARBIDE LA			.1%	1000	10000
		40		intxln ∉, yel min flor a cut			·		200 units h1 min f (	op Sis				
				LS, lt-m gy brn, mic-vf xln, arg, dol, suc, p intraxln ∉, n cut			•					"	:	
		60		LS, m gy brn, wh, mic-vf										
				xln, mod erg, dol, p int xln ∅, yel min flor; sme AMRY, wh, micxln						· · · · · · · · · · · · · · · · · · ·		:::::::::::::::::::::::::::::::::::::::		

S OF S	OPE			./** 731 4 7A	SEC	_2½T	WP	28 :	RNG .	<u>41                                    </u>				ex
RATE OF P	ENETRATI f∕hr ☐ DPU ——	ON	DST H L A B C	GRAPHIC LITHO		<u></u>	10 UN	S MUD GAS(	back up	1000 UNITS 10% -X-X-X-X-	S	GAS C METHANE- ETHANE-	E-C1 1SO -C2 N-B E-C3	TOGRAPH
- AC	1		- (200		LS, brn, err-mickin, and mod ind, tr pyr, p vug d, yel on min flor n c LS, n gy brn, wh, mic- vf kln, mod-v ang, mod							C1		
TY Sur	900 9 60 5 54		.70		ind, we intrin \$\mathcal{J}\$, yel win flor, \$r\$ out: \$\frac{486}{186}\$, wh, micrin  Li, it gy, tan, mic-vf win, crpxin, mod ind, arg, suc, f suc \$\mathcal{J}\$, yel gn flor, a cut								94 4/ 01 02	100 div
	10 15	30	3 5		iOL, gy, wh, mic-vf xln p ind, sl ard, suc, e intragen √, yel gen fin n cut, ip iS, gy, tan yp latxln √, n cut	2	100		1000	10000			ica nc4	250 div
			÷		ict, wh, it py, tan, sic win, p-end ind, sod arg suc, g interact, yel sin flor, n cut	23	.12		7.3.	10%			.12	12 -02
			(2002)		is, it-m by ten, mic-fn xin, n int, n-m; ing dol, we intain done out									<u></u>
					is, it-m gy brn, wic-fn win, crpxin, p-mod ind suc, dol, mon-v arg, g intgran f, n cut; ip	Ì	1	<u></u>	-					11.1

i o ii	g .	OPE	RAT	OF	₹ _:	EXAU C	11 <u> </u>	SEC	_?2 TW	/P_288	RN	IG <u>51 .</u>		an	214	žΧ.
o Cardage and Englished in the	75		V	/EL	L _=	ujok let	£-1	·	SEVELT	co	•, <u>"T</u>		. A	GEOSCIENC	E EXTENSION	
RATE C	Z í	/hr [			HIGH		PHIC HO	DESCRIPTION	10	UNITS	100 U	up scale X100)	0 /	GAS CHE	N-BU	OGRAPH
	V DLA			Ö	H S			AND REMARKS	-x-x-x-x	CUTTING	GA5 _	x-x-x-x-x-x- 	TFG	10	. j 2 U 100	1X 10 U 1000
								LI, it-m gy brn, fn xin sme micxin, r ind, suc dol, mod-v erg, g intra xin Ø, on yel flor, f- g yel stran cut		5				-3	C1 110 C2 162 C3 143	
	FF C	35 5 - 900 54			<b>:</b> 0			LT, lt-m my brn, mic-fn win, p-mod inc, mod-v arm, suc, m intraxin d n cut								
312 #4								GENIAGEPH : UT  LE, lt=2 my brn, mic-wf  kin, b=mod ind, mod erg,  r intxin ∉, k.FUE								٠
983 61 1 38 75 7 7/8	>	11	18/25/\$1		Ú			1007 DIRCHUTION  10, 11-a sy orn, mickin sme duc, r-cod ind, and r intxin 0, 80000		75 0U	25 units			10	2 100	: U 1000l
STC Y-1 BIT #5 PTG 30 PHS 2					9900 -			FUH DATA WE HOUSERV 35-0 YO & 35 3/7 SHI TUN EYO 17 NaCL 404,490	<b></b>	ix	1 %	- -	<del> </del>			× 01
	TAL DESTH N E - 1961		' .		20		*	TO 09/22/61 THANK YOU FOR LOGGERT WITH ANALEX: ALVIN JONES 7. CHELIE JONES			·					
						•			·		:					

O A	OPERATO	OR _	F-41 111 + 11	SEC	_::_	ΓWF	) ~ :	RNC	<u>'1</u> .		an	ale	ΣY
CATHER TO BE THE SEE	WE	ELL _	mart	<del></del>	F(85 ), 75 -1	-	co.,	"T .				GE EXTENSION	
m/f 🗓	ENETRATION f/hr   DPU	D E P T P C C O R E	GRAPHIC LITHO	LITHOLOGY DESCRIPTION AND REMARKS		10 UN	75	100 UNIT	p scale X 100) s 1000 UNITS 102 -x-x-x-x-x-	Ö	METHANE-C ETHANE-C PROPANE-	2 N·BU	OGRAPH 101ANE-10 1ANE-104 12 1000
				COMMENCE LOGGLEG F 5000' GE/13/81 IN OTTEN FORMATION							10	100	7000
- T	1 1	700		TH, rk gy, p-mod comp abfin-fin, pity, n calc ame Sd, it brn, p cet, wf-f grr, ang-sbang, p art, tr glau, NATES					JANUSUE LAG 190 units & 64 30 51 min	2:	;;;		
		40		W, it gy, wn, p comp, sbfis-blky, sleate, in 12, crm, mickin, p-end ind, ool, vp d, NEPPC								<u>C11:82:71</u> w/ Tf tes	t gas .
	10 15 20	60		9: 6 73 4/6 pH 7.1 FIL 17 heCl 244,700 SH, lt gn, sme gy, p .0 comp, shfis-blky, n-sl	2%	.1%		1000	1000U			01 100 c 02 340 c 03 500 c 804 2400 804 160 c	iv iv Av 1000
		- 80 <sup>-</sup>		calc, ip LS, yel orn nickln, p-cod ind, and nol, yp 0, MSFGC SM, lt gm, sme gy, p-mod								•	
1817 . #3 5 1825 . 71 1905 . 110 #	DB/19/61	5100		comp, sbfis, blky, sl calc, ip LS SH, lt gn gy, p-mod comp				ï		:			
7, 716		20		ireg-blky, sl calc, tr dism pyr, ip LS, yel crm, sme lt gy, micxln p ind, ool, vp Ø, NSFOC			·				:		

- Marian Illum, 7 and	OPERA'		PNAS DEL SIGN UCKLUS I PH1	SEC	22 TW	/P_75 _ N	RNG_	51 :.		alex
RATE OF PE m/f ☑ ▲ DI	f/hr 🗀	D E P T H	GRAPHIC	LITHOLOGY DESCRIPTION AND REMARKS	10	UNITS	AS(back up s 100 UNITS 111 GAS -x-x-	1000 UNITS	METHANE ETHANE-O V PROPANE	C2 N-BUTANE-nC
804 97 Prot Brite	eco 60	90		SC, red-orng brn, n cat vf-fn grn,, ang-sbang, p srt, n-sl cale, vp \$\forall NSFOC, sme L3, m gy, micxln, p-mod, sl-mod arg, vp \$\forall, yel min flor n cut					51	
		5300		Kiner in mamatica for 6 5318'						
	10 15 2	O 44;		-v arg, vs /, yet ain flor, on out	<del></del>	iou ix	100U	10000	<del></del>	0U 100U 100 1X 1X (
				LG, wh, it gy, orp-sicxl :-cod ind, si-cod arg, vp intxin 0, yel ain flor, n cut  LS, it gy, wh, nod ind crp-micaln, si-cod arg vp 0, sl yel min flor						

de		OPE	ERA	TO	R_	racy, ell. C g	ನ್ನು SEC	23	TW	P_28	<u>.</u> R	NG _	1 .		ar	12	ile	X
0// • 140008144 1 1 7 100	× 15 - 15.0		1	ΝE	<u>LL _</u>	andals		M.V. J. Mail	<u></u>	co	)., <u>"ī.</u>			,	•	-	EXTENSION	OF XCO
RATE m/i	OF PEN	<b>í∕h</b> r			DEPT DEPT DEPT DEPT DEPT DEPT DEPT DEPT	GRAPHIC LITHO	LITHOLOGY DESCRIPTION AND REMARKS	<u> </u>	10 6	US MUD C	100	UNITS	1000 UNITS 103 -X-X-X-	н 0 W	METHANE ETHANE PROPAN	E-C1		GRAPH TAME-104 NE-104
			Τ	<del>-</del>			<del></del>		<del></del> -	- 		<del></del>		TFG		υ'ο'υ	100 0	/ 1000 L
<b>\{\}</b>							SH, it mm, p comp, sbfis sl calc, tr pyr, sme LS						:					:
	VOB PP Bin	35 <b>500</b> 50			40		yel cræ, micxln, arg, ool, vp Ø, yel min flor n cut											
	1	61			60		LS, it gy, wh, yel era mic-vf xin, p ind, si mrg, vp \$\overline{\pi}\$, yel min flor n cut, ip \$\overline{\pi}\$, it on gy p comp, ires-shfis, n-			•								
	,				80		sl calc, tr pyr ≥, law, clr, wh, b—mod cut, fn grn, ang-sbang		-		<del>,, ,</del> , , , , , , , , , , , , , , , , ,							
	1	0 1		20	· 5200		p set, sl seg, el-mod cole, up intgen d'aurec 55, red-orng brn, p cat vf-fn gen, p set, n-sl	)	10	บ	10	ου	1000U			100	1000	10001
	 						calc, vp intgrn J, sl .0 min flor  MUD TATA WT 10.4 FV 33		.1	x		<b>x</b>   				.1%	13	
				•	20:		YP 8 CS 3/6 pH 7.0 FTL 17 NeC1 290,400					:			: '			
					40		SS, red-orng brn, p cat  vf-fn grn, p srt, sl  calc, vp intgrn \$,  KSFOC	:									1.1 · · · · · · · · · · · · · · · · · ·	

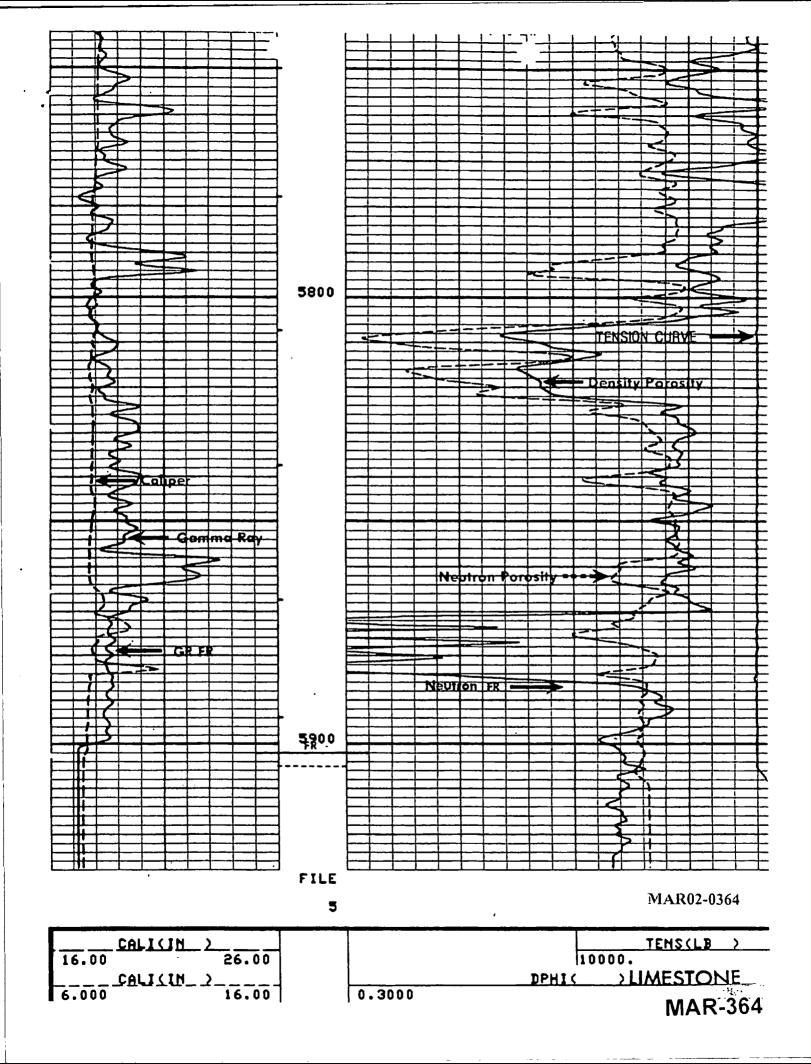
O.F.	OPERAT	OR _	TEXAS TIL 1 G	AS CORE SEC	22	TW	P_28_	_ <u>*</u> RI	NG _51	ε		ar	12	عا	X
· CLECKENS STREET OF THE	W	ELL _	BUCKLES B-1	<u>_</u>	00SEVEL	T	c	O., <u>MT</u>				A GEOSC			
RATE OF PE	f/hr 🗌	D E P I	GRAPHIC LITHO	LITHOLOGY DESCRIPTION AND REMARKS	<u> </u>	10 L	INITS	GAS(bac	UNITS_	1000 UNITS	ö	GAS C METHAN ETHANE PROPAN	IE-C I I-C 2 IE-C 3	150-8U N-BUT/	GRAPH ITANE-IG- AHE-AC4
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	08/ <i>2</i> 0/js1	20		15 lt gy, wh, mic-fn xln p-mod ind, erg, vp d, NSFUC											• • • • • • • • • • • • • • • • • • • •
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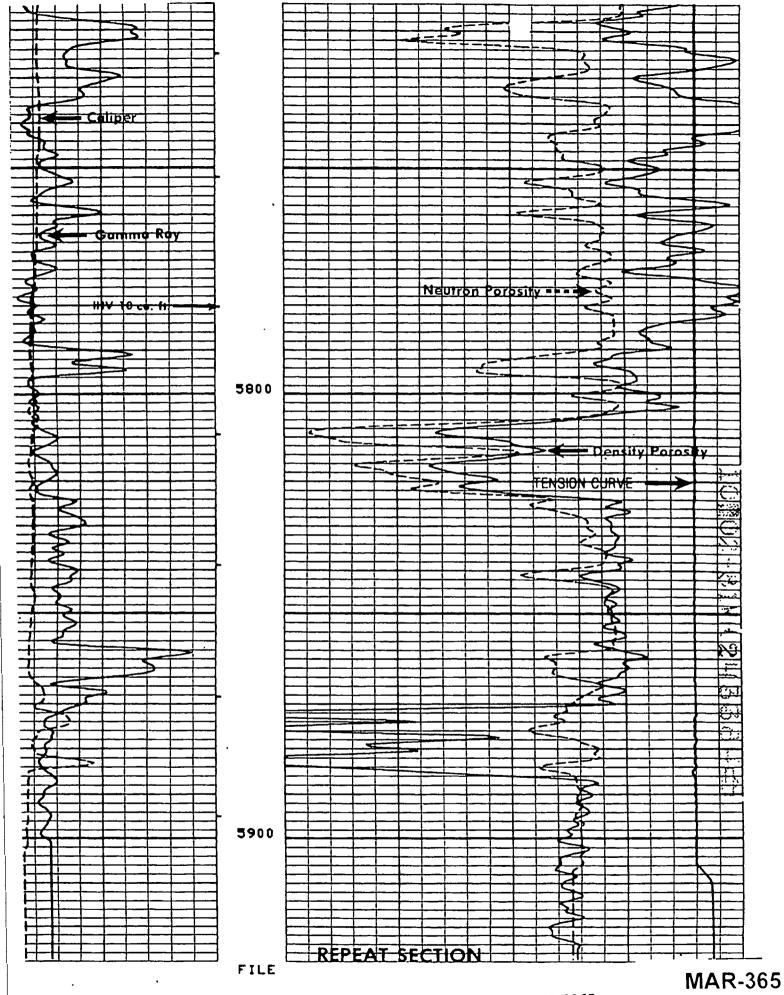
Liner Set From	Operator Texas 011 &  Lease Buckles  Field Poplar  County Roosevelt  Stage Number 1  Misc. DepthXXXXPB 8  700 Type Packer Bak  Inface To Ti)  Depth Hole: Size ————————————————————————————————————	55 Formation Judith River
Casing Perforations: Size5Holes Per Foot3		
Previous Treatment N/A		Prior Production N/A
	Type	Emulsion CAPACITIES IN BBLS
Total Prop Quantity Lbs. Prop Type. Prop Mesh Sizes, Types and Quantities		Ione C Annular Cap. ————————————————————————————————————
Hole Loaded With Salt Water T Ball Sealers: In T Ball Sealers: In T Types and Number of Pumps Used $\frac{1-Acid\ Frac\ 70}{Auxiliary\ Materials\ 2-2altons\ 1-15}$	Stages of	Pad Volume
Procedure Pump salt water to check pres	sure and rate: Pump	12 BB1s. Acid: Total to Recover * 279 1
AM/FM         Tubing:         Casing         Pumped           12:50+         100         0           12:57+         1100         14.2           12:58+         1100         15.3           12:59+         650         19.1           1:31+         600         132           1:35+         400         132           2:10         550         238.5           2:11+         500         241.3           2:23+         450-         243.3           2:26         550         279.1	O Start Salt Wa  Start Salt Wa  Start No. 14  Acid On Perfo  4.1 Extraction Bre  3.2 All Acid: Sta  3.1 Shut Down, Re  O Resume Pumpin  Decrease Rate  Decrease Rate  Resume Rate o  All Flush: Sh  * 279.1 will  posal Well	ut Down not be recovered because it is a D
Operator's Maximum Pressure 2000	<u>3</u> Westeri	er Representative Jeff Dyk  n Representative Jim Smith  ution 1 copy: Suite 300  2705 Montana Ave.  Billings, MT 59101
Job Number		1 copy: Sidney Distriction MAR-362

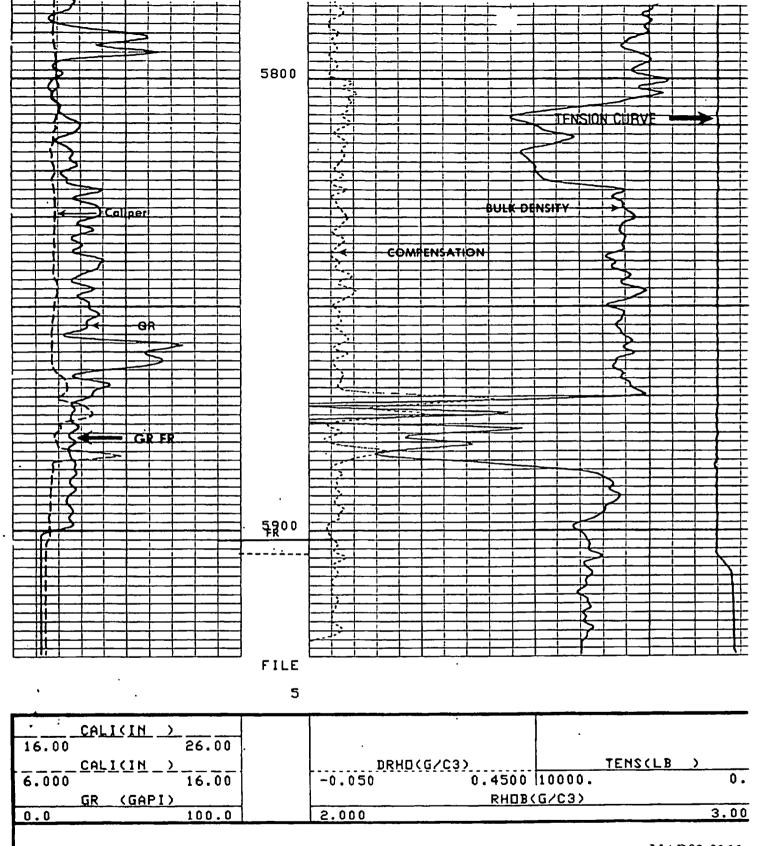
Schlumberger

# COMPENSATED NEUTRON-FORMATION DENSITY

GAS	COMPANY TEXAS OIL AND GAS CORP	DRATIC	DN
YELT POPLAR 22-28N-5 E B NO.1 S OIL AND DRATION	WELL BUCKLE B NO.1  FIELD EAST POPLAR		
SE SE SE SE SE SE SE SE SE SE SE SE SE S	ROOSEVELT STATE MONTE	Other :	Services: /MSFL/GF
Permanent Datum:_ Log Measured From Drilling Measured Fr	GL ; Elev. 2706 KB , 13 Ft. Above Perm. Datum	Elev.:	K.B. 2119 D.F G.L. 2106
Date Run No. Depth—Driller Depth—Logger Bim. Log interval Top Log interval	8-21-81 ONE 5920 5905 5902		
Casing—Driller Casing—Lagger Bit Size Type Fluid in Hale Dens. Visc.	4600   8-5/8@ 1200		@
pH   Fluid Loss Source of Sample Rm @ Meas. Temp. Rmf @ Meas. Temp Rmc @ Meas. Temp	7.0   10 ml   ml	*F	@ @
Source: Rmf Rmc Rm @ BHT  Circulation Stopped Logger on Bottom	M	•F	@ @
Max. Rec. Temp. Equip.   Location Recorded By Wilnessed By	195 'F 'F 8247 WLSTN 4109 SORENSEN-BARBER DYER	°F	AR-363







16.00 26.00 DRHD(G/C3) TENS(LB )

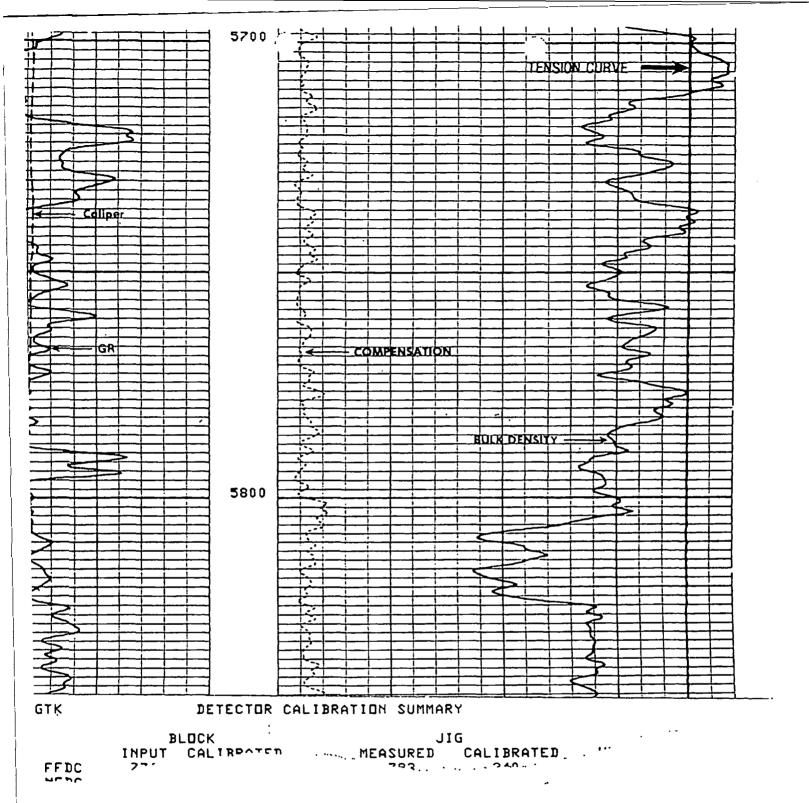
6.000 16.00 0.4500 10000 0. 0. 

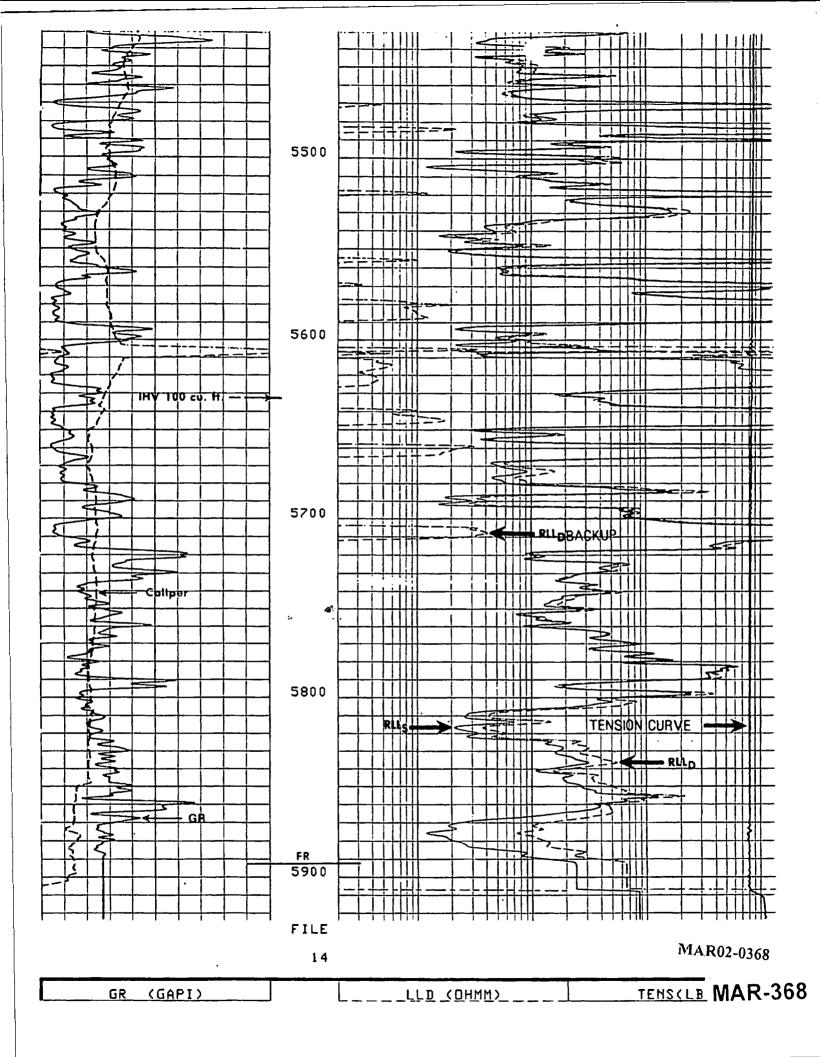
GR (GAPI) 2.000 RHDB(G/C3) 3.00

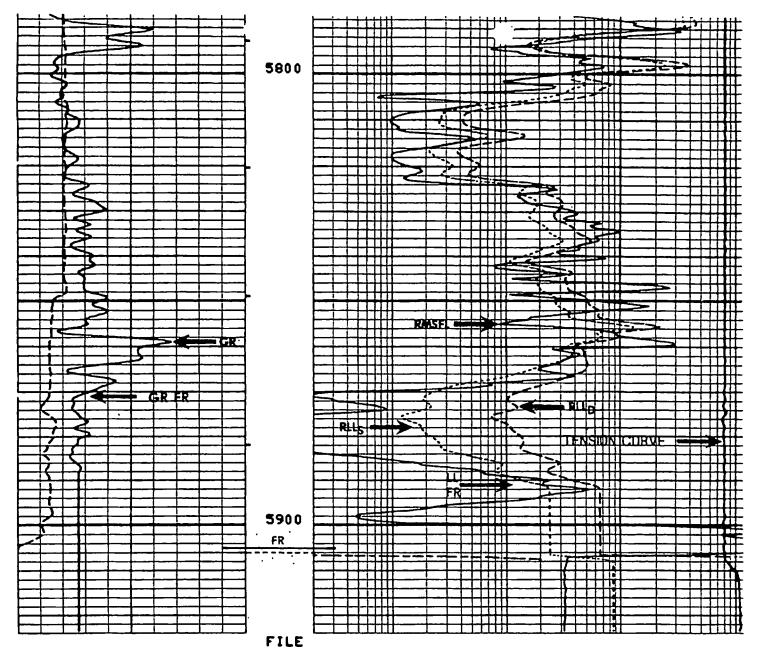
PARAMETERS MAR02-0366

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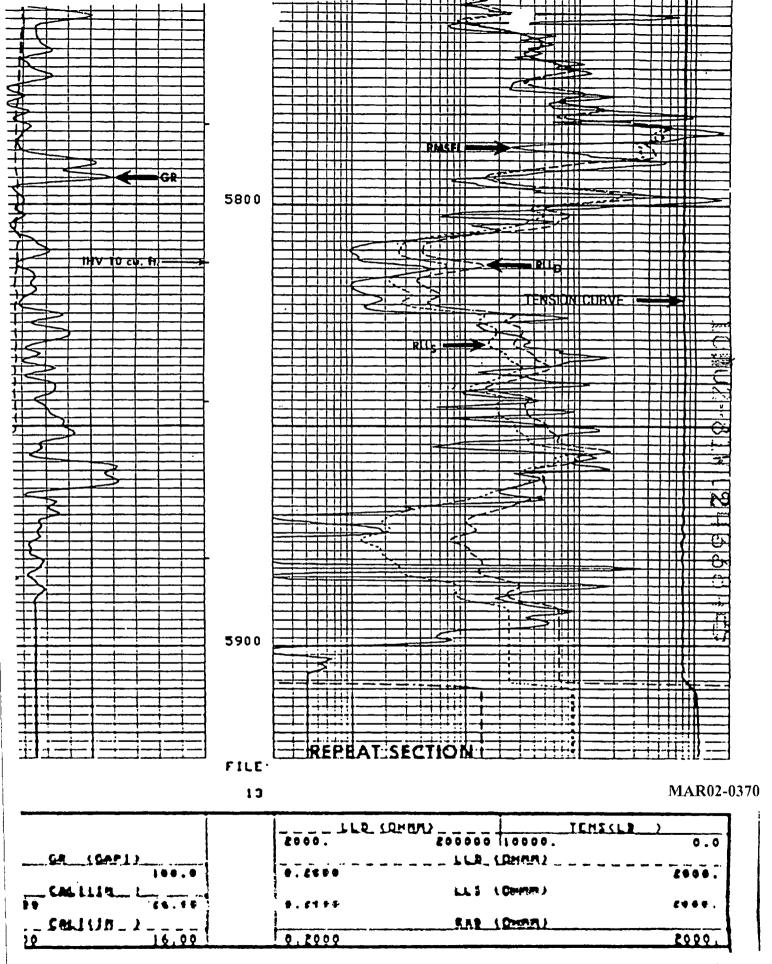
HC CALI PSNR 2.235 BS INCH 7.875 MAR-366







	LLD COHMM	<u> </u>	TEMS(LB >
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GR (GAPI)			
0.0 100.0	0.2000		200
CALICIN_>		LLS (OHMM)	
16.00 26.00	0.2000		200
CALICIN >		RXO (DHMM)	
6.000 16.00	0.2000		200
	PARAMETERS		MAR02-0369
NAME UNIT VALUE	NAME UNIT VALUE	NAME UNIT	VALUE
FPHI PHIX	SPT STAN BHS OPEN	BS INCH	7.875_ MAR-369



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FPHI DO	PHIX 0.0	S Bhs	STAN Open	B2	INCH	7.875

# BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 81/08/22 PROGRAM FILE: DST (VERSION 18.2 81/04/25> DSTD ELECTRONICS CALIBRATION SUMMARY MEASURED CALIBRATED STIMU LLS 38.09 31.60 MHO LLD 36.56 31.60 DHM DST ELECTRONICS CALIBRATION SUMMARY MEASURED CALIBRATED PLUS ZERO PLUS ZERO CTIHU CMSF 999.9 0.5 967.5 0.0 MM/M I 1 7.1 186.0 0.0 200.0 MM/M SGTE DETECTOR CALIBRATION SUMMARY MEASURED BKGD JIG CALIBRATED STINU GR 48 207 165 GAPI DST CALIPER CALIBRATION SUMMARY

MEASURED CALIBRATED SMALL LARGE SMALL LARGE UNITS CALI 7.4 10.7 8.0 12.0 IN FILE

12

MPANY TEXAS OIL AND GAS CORPORATION

LL BUCKLE B NO.1

DEAST POPLAR

UNTY ROOSEVELT STATE MONTANA

SCHL. FR. 5905
SCHL. TD. 5906
DRIR TD. 5920

Elev: KB. 2119
DF. ---GL. 2106

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			-				1	A. T. Bloomer, Texas Oil & Gas Corp.  2705 Montana Avenue - Billings, MT
		!			1		•	2705 Montana Avenue - Billings, Mi

1800 LINCOLN CENTER BUILDING DENVER. COLORADO 80264

TELEPHONE (303) 861-4246

January 16, 1981

U.S. Geological Survey Post Office Box 2550 Billings, Montana 59103

Attention: Mr. Tom Richmond

Re: Buckles "A" #1 Section 22-T28N-R51E

Roosevelt County, Montana

#### Gentlemen:

Enclosed for your review are three copies of an APD package for the above-referenced well. Contained in this package are an Application for Permit to Drill, a 9331-C Addendum (subsurface plan), and a Multipoint Surface Use and Operation Plan. A complimentary copy of this APD package has been forwarded to the Bureau of Indian Affairs, Fort Peck Reservation, Poplar, Montana.

We would appreciate an expeditious review of this application package due to rig commitments we have made. If you have any questions or need additional information, please contact either Leo Heath in our Texas Oil & Gas Corp. Billings office (telephone 406-248-4330) or me (303-861-4246).

Very truly yours,

TEXAS OIL & GAS CORP.

Charles K. Curlee

Environmental Administrator

CKC/bs Enclosure/as stated

2705 MONTANA AVENUE - 5UITE 300 406 - 248 - 4330

BILLINGS, MONTANA 59101

January 29, 1981

Oil & Gas Commission Dept. of Natural Resources & Conservation 2535 St. John's Avenue Billings, MT 59102

Re: Buckles "A" Well #1

Sec. 22, T28N, R51E

Roosevelt County, Montana

### Gentlemen:

Enclosed for filing please find Notice of Intention to Drill in quadruplicate, along with our check no. 55759 in the amount of \$100.00 in payment of filing fee.

Thank you for your attention to this matter.

Yours very truly,

TEXAS OIL & GAS CORP.

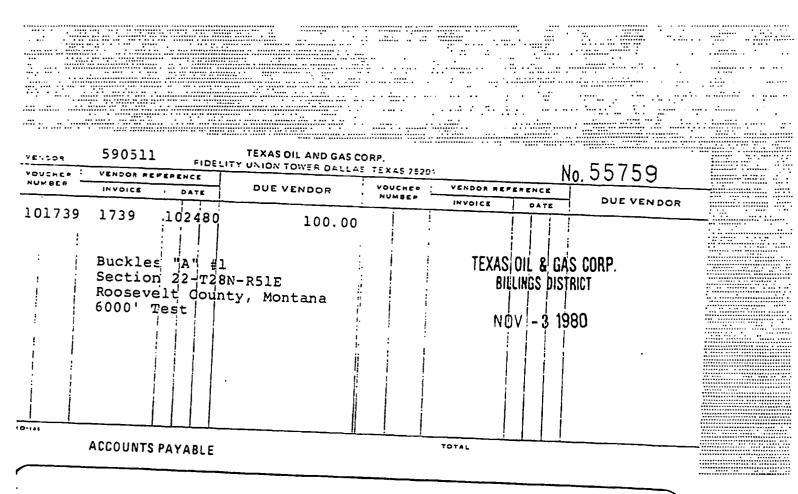
Leo A. Heath District Engineer

LAH:blj

Enclosures

bcc: Well File

Circ File JWA Read File



FIDELITY UNION TOWER DALLAS, TEXAS 75201

REGULAR ACCOUNT

FIRST NATIONAL BANK IN DALLAS

DALLAS, TEXAS

32-1

PAYTOBoard of Oil & Gas Conservation State of Montana 2535 St. John's Avenue Billings, Mt. 59102 No. 55759

AMOUNT

10-29-80	**\$100.00**
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FOR	Buckles "A" Section 22-7	#1 29N-D51E	<del></del>		140 DE COMPLETED PRIOR TO APPROVAL!
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				APPROVED	1. Wheeken
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-				$\dashv$	2705 Montana Ave Billings, শা
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2705 MONTANA AVENUE - SUITE 300 406 - 248 - 4330

BILLINGS, MONTANA 59101

February 5, 1981

Oil & Gas Commission Dept. of Natural Resources & Conservation 2535 St. John's Avenue Billings, MT 59102

Re: Buckles "A" #1 Well

Sec 22, T28N, R51E

Roosevelt County, Montana

## Gentlemen:

We are enclosing our check no. 61393 in the amount of \$75.00 which is in payment of the filing fee for the above entitled well. We had previously sent a check to you for an incorrect amount, which you have returned to this office.

Thank you for your consideration in this matter.

Yours very truly,

TEXAS OIL & GAS CORP.

Leo A. Heath

Production Engineer

LAH:mt

Enclosure

VENDOR	50051-1	FIDELIT	TEXAS OIL AND GAS CO			No	.61393
VOUCHER	VENDOR REF	ERENCE		VOUCHER	VENDOR REF	ERENCE	DUE VENDOR
NUMBER	INVOICE	DATE	DUE VENDOR	NUMBER	INVOICE	DATE	
12414	Buckle Section Roosev	n 22-T2			TEXAS OIL BILLIN FEB	1 1-04	RP.

**ACCOUNTS PAYABLE** 

No.61393

FIDELITY UNION TOWER DALLAS, TEXAS 75201

REGULAR ACCOUNT

FIRST NATIONAL BANK IN DALLAS

DALLAS, TEXAS

32.1

#O61393# #111000012#

PAY TO Board of Oil & Gas Conservation State of Montana 2535 St. John's Avenue Billings, Mt. 59102 2-3-81 \*\*\$75.00\*\*

07 3369 14

#### Inter-Office Memorandum

	Date: February 6, 1981
To: A. D. Carter, Jr Dallas	From: R. G. Becker - Billings
	Operations Package Re: Buckles "A" #1
	East Poplar Prospect Roosevelt County, Montana

Attached for your approval is the operations package for the Buckles "A" #1. This 6000' well will offset the Mesa Biere 1-22 in the direction of the main East Poplar oil field. The Mesa well, 1800' southwest of the proposed location, has produced 159 MBO from the Mississippian Charles "C" zone and is currently producing 15 BOPD. The large East Poplar oil field, beginning a mile northeast of the proposed location, has produced 45 MMBO from the Charles. Approximately 10' of structural advantage over the Mesa well is anticipated.

The leaseholders in the SW4 of Section 22 have all refused to work with us in any way which ties up their acreage. The 40 acres in the NW4 of the SE4 of Section 22 is HBP by Murphy, and we are trying to get an option type farmout. It is doubtful we will be successful.

We are also attempting to get a leasehold position in the W4 of the SE4 of Section 15.

Predicted economics for the Buckles "A" #1 are:

Drilling & Completion Cost	\$429,000
TXO Working Interest	100%
TXO Net Revenue Interest	83.33%
Gross Reserves	90 MBO
Initial Rate	100 BOPD
Initial Oil Price	\$32/Bb1.
Success Probability Factor	50%
ROI	3.0:1
ROR	80%
Payout	16 months
Lease Costs	\$96,000

RGB:mt Attachments

Decline rate: _	30%	ξ	201	}
Initial rate of p				BOPD

Remarks.

'rouct Name Buckles "A" #1 العرادة By: Leo Λ. Heath

TWO INVESTMENT APPRAISAL PROCEDURE Discounted Cosh Flow (DCF) Workshoot-Amounts in M\$ (Volume in MBO)

2016 January 28, 1981

Column 1	2	3	4 REVENUE	5	6	7 CASH	8 OPERATING	9 EXPENSES	10	.11	110	12	13	Н .	15
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PERICO	UNIT /YEAR	UNIT / YEAR	/U0T	REVENUE	XAT	084 EXPENSE	OTHER	FIXED	TOTAL	REVENJE	11_%	OUTLAYS	FLOW	<u> </u>	AT
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80 PER CENT

16\_ MONTHS

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TAM HAIE . 2.85%

HET MORECOS TAKE 11%

OBA EURISE NATE: \$0.06/bb]

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W.ZII.

1 AMOUNT

OPEX

OCF RATE OF RETURN .

\$12,000/YR

LESS SALVAGE VALUE. TOTAL CAPITAL OUTLAYS!

SUSTOTAL INITIAL CAPITAL OUTLANS

ITEMS

LIST INITIAL

CAPITAL OUTLATS .

LIST ADDITIONAL CAPITAL

50 %

OUT LATS:

226

847

WORKING CAPITAL ( INVESTED IN YR. I & RECOUPED IN LAST YEAR OF THE PHOLET) AVERAGE AWARE REVOLUE & RATE + WORKING CAPITAL OUTLAY.

DRILLING

COMPLETION

**ACQUISITION** 

WOINDVER.

PRODUCTION EQUIPMENT

RISK CILE & (DRLD+ACO 1)

# WELL RECOMMENDATION MEMO

ate: <u>January 30, 1981</u>		Prospect Name: East Poplar
ecommended by: Michael	Walen	Location: Sec. 22 Twp 28N Rge 51E
ell Name: <u>Buckles A-1</u>		County: Roosevelt StateMontana
epth: 6000'		
rimary Objective Zone:_	Charles "C" Z	Cone Oil X Gas
eserves & Economics		•
Estimated Reserves:		90 MBO Risk: 50%
Reserve Method: Declin	e Curves	
Reserve Parameters:	A:	Bg:
	h:	RF:
·	ø:	Sw:
Economic Evaluation:	Price:	\$32.00/bb1
	DCFROR:	80%
	ROI:	3.01:1
	Payback:	16 mos.
Pipeline Delay: None		Rate: 100 BOPD
Well Cost: P&A	\$226,000	TXO Net \$226,000
Completed	\$429,000	· TXO Net \$429,000
Land	•	вро аро
TXO Working Intere	est:	100 % . 100 %
TXO Net Revenue In	terest:	83.33 % 83.33 %
Land Cost: \$ 96,000	Acres:	160 Gross 160 Net
Comments:		<del></del>
Market: Permian		
Special Obligation	s: <u>None</u>	
Remarks:	•	
	<u></u>	

MAR02-0391

Signed: Mihal B. Walen

### EAST POPLAR PROSPECT

Texas Oil & Gas Corp. Buckles "A" #1 Section 22, T28N - R51E Roosevelt County, Montana

The Buckles "A" #1 is to be located 1980' FNL and 1980' FWL (C SE/4 NW/4) of Section 22, Township 28 North, Range 51 East, Roosevelt County, Montana (TXO lease #46529-000). The lease is a recently issued United States Department of Interior; Bureau of Indian Affairs lease with the Assiniboine - Sioux Tribe of Indians. Mr. Austin R. Buckles is the sole Indian allottee.

The lease covers the entire NW/4 of Section 22, Township 28 North, Range 51 East and has a primary term of five (5) years and as long thereafter as oil and/or gas is produced in paying quantities. Absent of production, the lease will expire November 21, 1985. In addition, the lease cannot be extended by a shut-in well.

TXO's interest in this test shall be 100% W.I. and an 83.33% N.R.I. BPO/APO.

John P. Gilbert

Inter-Office Memorandum

		. Date: 2/12/81
To:_	Kathy Sivess - Accounts Payable	From: Marion L. Taylor- Billings
		Re: Return of check No. 55759
	We are herewith returning Check No. 55 The check has been re-issued for a dif returned to our office by the Oil & Ga	759 issued by TXO on October 29, 1980. ferent dollar amount. This check was s Conservation Commission here in Billings.
	Thank you.	
	M.	L.T.
	TEXAS OIL & GAS CORP.  FIDELITY UNION TOWER DALLAS, TEXAS 75201 REGULAR ACCOUNT	No. 55759
į.	PAY TO Board of Oil & Gas Conservati State of Montana 2585 St. John's Avenue Billings, Mt. 59102	On AMOUNT  10-29-80 **\$100.00**

07 3369 10

27.05 MONTANA AVENUE - SUITE 300 406 - 248 - 4330 BILLINGS, MONTANA 59101

February 16, 1981

Mr. Howard Helmer c/o Sherman Motor Inn Box 879 Wolf Point, MT 59201

RE: Rehabilitation and Right-of-Way

Plans

Buckles "A" #1

Roosevelt County, Montana

### Dear Howard:

I have enclosed three (3) copies of both a Rehabilitation Plan together with a Consent of Owners to Grant of Right-of-Way which Mr. Austin R. Buckles must sign.

Upon the securing of Mr. Buckles signature, please leave a copy of each completed form with Ms. Frances Eagleman and return a copy of each to the undersigned. The additional copies are for Mr. Buckles files.

Very truly yours,

TEXAS OIL & GAS CORP.

John P. Gilbert Area Landman

JPG: km Enclosures

CC: Charles K. Curlee - Denver TXO

### ".tana html-1

# REHABILITATION PLAN

Lease No.: <u>14-20-0256-5066</u> ; Wi Na	
Location: 1980' FNL & 1980' FWL	, Sec. 22 , T. 28 N., R. 51E XX
Texas Oil & Gas Corp.	Oil Company intends to drill a well on
surface owned by Austin R. Buckles	. The lessee/operator chabilitation work if the well is a producer:
agrees to complete the following fe	madification work if the well is a producer;
√√ Yes // No Maintain acces	s road and provide adequate drainage to road.
<del></del>	eseed any area not needed for maintenance of the art facilities.
Other requirements:	
The following work will be complete	ed when the well is abandoned:
•	
Yes // No Pit will be fe surrounding to	enced until dry, then filled to conform to pography.
/X/ Yes /// No Water bars wil	ll be constructed as deemed necessary.
X Yes / No Site will requ	ire reshaping to conform to surrounding topography
$\frac{\sqrt{X}}{\sqrt{X}}$ Yes $\frac{\sqrt{X}}{\sqrt{X}}$ No Entire disturb	oed area will be reseeded. If yes, the following will be used:
No, as acreage	is cultivated
- land	
	ill be closed, rehabilitated and reseeded using mixture as above.
// Yes // No *Access road wi	Ill remain for surface owner's use.
// Yes // No *Water bars will necessary.	ll be constructed on the access road as deemed
Other requirements:*at owners_	option
	·
Surface Owner:	Operator/Lessee
Name: Austin R. Buckles	Name: Texas Oil & Gas Corp.
Address: P.O. Box 252	Address: 2705 Montana Avenue, Suite 300
City: Poplar,	City: Billings.
State: Montana 59255	State: Montana 59101
Telephone:	Telephone: 406-248-4330
Date:	Date:
I CERTIFY rehabilitation has been	discussed with me, the surface owner:
	(Surface owner's signature)
	(2011-000 0-1101 0 010100000)

This plan covers rehabilitation requirements only and does not affect any other agreements between the lessee/operator and surface owner.

BAO-413 April 1973

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS

# CONSENT OF OWNERS TO GRANT OF RIGHT-OF-WAY

(To accompany application for right-of-way)

Fort Peck		,	Agency,	February 17	19_81_
				Buckles	
Description	NW% of Section	22, Township	28 North,	Range 51 East, 1	Roosevelt County
•	Montana				
_	,		_	(do not) gi 5' in width	
right-of-way	thereover, as o	contemplated	by the appl	ication of Texas	Oil & Gas Corp
negotiated mo	onetary consider	ration in the	smount of		
	dolla	rs (\$	)	for the rights	granted and
severance dar	mages or the app	praised fair	market valu	e of the rights	granted and
severance dar	nages as determ	ined by the	Superintende	nt, whichever i	s greater.
Other terms	or comment				
				:	
Witnesses:			Owners:		
		<del></del>	<u>X</u>		
			Austin R.	Buckles	
		<del></del>			
_					

2705 MONTANA AVENUE - SUITE 300 406 - 246 - 4330 BILLINGS, MONTANA 59101

February 17, 1981

Mr. Howard Helmer c/o Sherman Motor Inn Box 879 Wolf Point, MT 59201

> RE: Surface Damage Receipt & Release Buckles "A" #1 Roosevelt County, Montana

# Dear Howard:

As we discussed, enclosed are three (3) copies of a Receipt and Release forms providing for the settlement of surface damages to be incurred through drilling.

Please fill in the negotiated amount and likewise on the ten (10) day draft.

Please leave a copy with Ms. Eagleman and Mr. Buckles, returning one (1) to the undersigned together with the pink and blue copy of the draft.

Thank you.

Very truly yours,

TEXAS OIL & GAS CORP.

John P. Gilbert Area Landman

JPG:km Enclosures

u'sch

Inter-Office Memorandum

/	Date: 2/18/81
To: Ron Becker	From:Donald Chase
Billings, Montana	Re: BUCKLES "A" #1
	ROOSEVELT COUNTY MONTANA

Attached is approved AFE No. 810514 to drill and complete the above referenced well.

DC/wb

cc: Leonard Landrum (2)
Steve Haworth
Ethel Nuttall
Lelah Sartain
Steve Graham
'H. Adair
W. Webb
File

# AUTHORITY FOR EXPENDITURE

DRILLING WELL

Date January 21

District Montana_	/ North Dakota	Well Name	Buckles	''A'

District .	Montana_/	North Dakota	. Well Name .	BUCKTES	
		•			

Well Location SE NW, Sec. 22, T28N, R51E

Dopth 6000 '

Field Fast Poplar Prepared By: L. A. Heath \_ County <u>Roosevelt</u>

State Montana

CAT.	NOTHING OF CURRENCE				ESTIMATED COST		
NO.	NATURE OF EXPENDITURE	QUANTITY	CASH		MAT,L ON HAND	TOTAL	
	DRILLING						
01	Casing 8-5/8", 24#, K-55	1200'	11	500		11	50
02	Casinghead		2	500		. 2	50
03	Location, Road & Dirt Work		4	000		. 4	00
04	Drilling - Footage/Turnkey		120	000		120	100
05	Drilling - Daywork		20	000		20	0
06	Drilling - Rig Support		15	000		15	0
07	Bits						<u>l -</u>
80	Supervision		5	000		5	10
09	Overhead		2	Tooc		2	0
10	Mud & Chemicals		18	000		18	0
11_	Cementing Services & Supplies		7	000		7	10
12	Testing & Logging		12	000		12	0
13	Rontals		5	000		5	$\overline{}$
14	Other IDC		2	000		2	
15	Other Equipment		2	1		2	_
				1			Т
	TOTAL DRILLING		226	1000		226	lo
	COMPLETION						T
17	Cosing 51,17, 15,5 & 17# K-55	6100'	24	400		24	4
18	Tubing 2-7/8", 6.5#, J-55	6000'	18	000		18	0
19	Wellhead		4	000		4	0
20	Subsurface Equipment	-	6	1000		6	0
21	Supervision	- 1	3	1000		3	lo
22	Mud & Chemicals		2	500		2	T <sub>5</sub>
23	Tasting, Logging & Parforating			000		9	lo
24	Stimulation		11	000		11	O
25	Overhead		2	1000		2	_
26	Rentals			1000		5	0
27	Service Rig		10	000		10	To
28	Cementing Services & Supplies		10	1000		10	To
29	Other IDC			100		3	1
	TOTAL COMPLETION		108	1000		108	To
	PRODUCTION EQUIPMENT						T
32	Pumping Unit		35	000		35	lo
33	Engine & Motor		5	1000		5	lo
34	Rods		10	1000		10	lo
35	Flow Lines		4	loog		4	C
36	Maters		1	000		, 1	. [0
37	Installation		10	000		' 10	ī
38	Storage		12	000		· 12	2 0
39	Separation & Treating		<del>}</del>	1000	<del></del>	· 13	
40	Other Equipment			1000			5 (
	TOTAL PRODUCTION EQUIPMENT	i		000		95	

	WORKING		DATE
OWNER NAME	INTEREST	AP	PROVE
		_	. 0

APPROVED:

429 000

TXO

100%

TOTALS

**MAR02-0399** 

429 000

A.D. Carter, Jr., Sr/

Vice President

AFE No. 81-0514	F	3	,	
-----------------	---	---	---	--

2705 MONTANA AVENUE - SUITE 300

406 - 248 - 4330

BILLINGS, MONTANA 59101

March 16, 1981

Mr. Ted Campen Schlumberger Well Services 328 Petroleum Building Billings, Montana 59101

RE: Buckles A-#1

. Section 22, Township 28 North,

Range 51 East

Roosevelt County, Montana

Dear Ted:

This will confirm that Schlumberger will be logging the Texas Oil & Gas Corp. Buckles A-#1. This is a 6000' Madison test in the East Poplar Field area. Our logging program is as follows:

Dual Laterolog - GR

Base surface casing to TD.

BHC Integrated Sonic - GR

Base surface casing to TD.

FDC-CNL-GR-Cal

4000' to 6000'.

Attached is our log distribution sheet for this well.

Very truly yours,

TEXAS OIL & GAS CORP.

Michael B. Walen

Michael B. Walen

District Geologist

MBW/dg

Attach.

cc: Leo Heath

Well File

fribal supervisor is to get capies of all logs.

2705 MONTANA AVENUE - SUITE 300 406 - 248 - 4330 BILLINGS, MONTANA 59101

May 13, 1981

Oil & Gas Commission Dept. of Natural Resources & Conservation 2535 St. John's Avenue Billings, MT 59102

> Re: Buckles "A" #1 Well Sec. 22, T28N, R51E

Roosevelt County, Montana

Dear Sir:

Enclosed is the Completion Report in triplicate on the Buckles "A" #1 well.

Thank you.

Sincerely,

TEXAS OIL & GAS CORP.

Leo A. Heath

Project Fngineer

LAH/blj

Enclosures

2705 MONTANA AVENUE - SUITE 300 406 - 248 - 4330

BILLINGS, MONTANA 59101

May 13, 1981

U.S. Dept. of Interior Geological Survey P.O. Box 2550 Billings, MT 59103

Attn: District Engineer

Re: Buckles "A" No. 1 Well Sec. 22, T28N-R51F.

Roosevelt County, Montana

Dear Sir:

Enclosed is the 'Well Completion Report" on the Buckles "A" No. 1 well with a copy of the DST #1.

Thank you.

Sincerely,

TEXAS OIL & GAS CORP.

Leo A. Heath

Project Engineer

LAH/blj

Enclosures

2705 MONTANA AVENUE - SUITE 300 406 - 248 - 4330 BILLINGS, MONTANA 59101

May 22, 1981

Board of Oil & Gas Conservation of the State of Montana P.O. Box 217 Helena, MT 59601

> Re: Buckles "A" #1 Well Sec. 22, T28N, R51E Roosevelt County, Montana

### Gentlemen:

Enclosed you will find the Producers Certificate of Compliance and Authorization to Transport Oil or Gas from Lease, original and two copies for the above mentioned well.

Thank you.

LAH/bj Enclosures Sincerely,

TEXAS OIL & GAS CORP.

Leo A. Heath

Project Engineer

MAR02-0403

MAR-4035

TO

# BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

P.O. BOX 217 HELENA, MONTANA 59601

# PRODUCERS CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE

Lease Buckles ''A'' #1 (Sec.) 22	(Twp.) 28N (Rge.) 51E Count	Roosevelt
Producer Texas Oil & Gas Corp.		Field East Poplar
Address all correspondence concerning this form to	Texas Oil & Gas Corp.	
Street 2705 Montana Ave. Suite 300	CityBillings	Montana 59101
The above named producer hereby authorizes	thon Oil Company	
•	(Name of Trans	porter)
Whose principal place of business: 539 South Mai	n St., Findley, OH 45840	
(Street)	(City)	(State)
And whose field address is P.O. Box 594. Star	nley, ND 58784	
To transport % of the oil more prod	iuced from the lease designated abo	ve until further notice.
Other transporters transporting oil or gas from this lea	se are:	
None	<i></i>	
(Name of Transporter)	(Name of Transporter)	
The undersigned certifies that the rules and regula complied with except as noted below and that the transform the above described property and that this authority and that the producer herein or until canceled by the	porter(s) authorized to transport the	percentage of oil or gas produced
Executed thisday of, 19		
Approved May 26 1981	TEXAS OIL & GAS CO	
too,	(Compan)	y or Operator)
By Lickman	KYDUBER	Project Manager
(Secretary—Counsel)	(Agent)	(Title)
	R.G. Becker	

-REMARKS OR SPECIAL INSTRUCTIONS-



# United States Department of the Interior



GEOLOGICAL SURVEY
Conservation Division
P.O. Box 2550
Billings, Montana 59103

TEXAS CIL & GAS CORP.
RILLIES DISTRICT
JUN 5 1981

Texas Oil & Gas Corporation 2705 Montana Ave., Suite 300 Billings, MT 59101

Re: Oil and Gas Lease Ft. Peck Al. 14-20-0256-5066

### Gentlemen:

We have not yet received the reports checked below pertaining to your well No. A-1 located in the SF NW  Sec. 22, T. 28 N, R. 51 E, Roosevelt County, Montana.
Form 9-331, Sundry Notices and Reports on Wells, Notice of Intention to Abandon. (3 copies)
Form 9-331, Sundry Notices and Reports on Wells, Subsequent Report of Abandonment. (3 copies)
Form 9-330, Well Completion or Recompletion Report and Log, covering drilling operations, and well status. (2 copies)
XX E-Logs - (30 CFR 221.59 requires that <u>duplicate</u> copies of <u>all</u> types of wire logs, sample logs, drilling time logs and other well surveys must be filed.) (2 copies)
XX Geologists Report. (2 copies)
Please submit these reports to this office at your earliest convenience, so that our files may be completed.
Thank you.

Sincerely yours

Thomas P. Richmond District Supervisor



ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

# TEXAS COL AUT GAS CORF. REQUEST FOR COL COURSUSAITS CERTIFICATIONS

	DATE: 6/4/81		<del></del>
	FECTFSTEL EX:	Leo A. Heath	
TNO PROPERTY NAME Buckles "A" #1	TWO PROPERTY	NO. 46529	
LOCATION/LEGAL DESCRIPTIONSEAMW	Section 22, T28N, F	R51E	
COUNTY	Roosevelt	STATE Montana	·····
PURCHASER Marathon Oil Company	PURC	HASER I.D. NO	
( Check if Dallas Offic	e should arrange for	Purchaser).	
(Est.) DATE OF FIRST SALE 5/13/81			
COMPLETION DATE 5/4/81	Charles "C"	OVERALL PERFORATIONS	5796 - 5800
RECOMPLETION DATE	ZONE	OVERALL PERFORATIONS	
PURCHASER'S CRUDE DESCRIPTION Swee	et		
(Okla	noma Sweet, West Tex	as Sour, etc.)	
APPROPRIATE CERTIFICATION REQUESTED	<u>:</u>	) TOTELED	D\?
1. χ Newly Discovered Crude		VERIFIED Land:	<u>51</u>
Property as defined in Did not produce crude	1972 in 1978	Eng.:	er ker
From this reservoir		Geo.:	
2. Stripper Oil  Attach production stat for associated wells o c) number of wells on per produced day per w than 10.)	nly by months: a) boroperty. Show cal	earrels; b) production of aver	ducing days; age barrels
3BPCLAttach production for	property for 1972 or	1975.	
4Heavy Crude			
5Exception Relief			
REMARKS:			· · · · · · · · · · · · · · · · · · ·
		······································	

				<u> </u>		
DATE REQUESTED 9/1	5/81	DATE . REQUIRED_	ASAP		AMOUNT 8 3,500.00	
PAYABLE TO: B	ureau of In	dian Affairs				_
ADDRESS Supe	rintendent.	Fort Peck Age	ency			_
Box (	637 Poplar	, Montana 592	55			
surface da	amages and	access for the	Buckles "A"	1 well	BILLING INSTRUCTIONS  170 SE COMPLETED PRIOR TO APPROVAL)	=
<u> </u>	29) and the	e Buckles 1 S	VD well (#150	0-07839)	TXO.	_
East Popla	r Prospect	. Roosevelt Co	unty, Montan	a		-
						-
						-
		•				-
	SSET	JUNDEVELOPED	SITION X	OTHER		-
MEMORANDUM	ACCOUNT	T/C LSE. NO. WELL	AMOUNT	j	CHECK REQUEST TXO-	_
·			<del>                                      </del>		AV. 241/	17
				ACONESTED	Man Milm	
				APPROVED.	1 Meske	- !!!
				RETURN CHECK TO	Warren H. Helmer	,
		<del>-   -   -  </del>	<del> </del>			· #

2705 MONTANA AVENUE - SUITE 300

406 - 248 - 4330

BILLINGS, MONTANA 59101

RECEDENCE

October 16, 1981

001 10 233

Billings, Manaziva

USGS Oil & Gas Conservation Div. P.O. Box 2550 Billings, MT 59103

TEXAS OIL & GAS CORP. BILLINGS DISTRICT

. 1:

OCT 27 1981

ATIN: Mr. Jim Mitchell

RE: Request for Pit Approval

Buckles "A" #1

Contract No. 14-20-0256-5066

Sec. 22, T28N, R51E Roosevelt County, Montana

Dear Mr. Mitchell:

As per a telephone conversation with Mr. Darryl Nelson of the USGS-Billings, TXO Production Corp. is requesting approval for a surface pit which is constructed as part of the Buckles "A" No. 1 producing facility. The details are as follows.

The pit is installed as a "flare pit", wherein the three flowlines which route to the pit are from the heater treater (1) gas outlet, (2) gas pressure relief valve, and (3) gas section rupture disk. In reality there is very little gas produced on the lease and a safety discharge through these lines to the pit would probably result in some oil and water discharge also. In that event, the flare pit has been lined with a standard PVC pit liner. The pit is used for safety pressure relief only and not for oil or water storage. Any fluids accumulating in the pit will be trucked out and disposed of.

The attached plan drawing shows the location of the pit with respect to the other production facilities on the lease. Please indicate your approval and return a copy of this letter for our files.

Sincerely,

TXO PRODUCTION CORP.

Tield. Hist

Leo A. Heath

Approval is granted provided that less than 5 barrels of fluid per day (on a monthly ave. basis) is disposed of into the pit.

Project Engineer

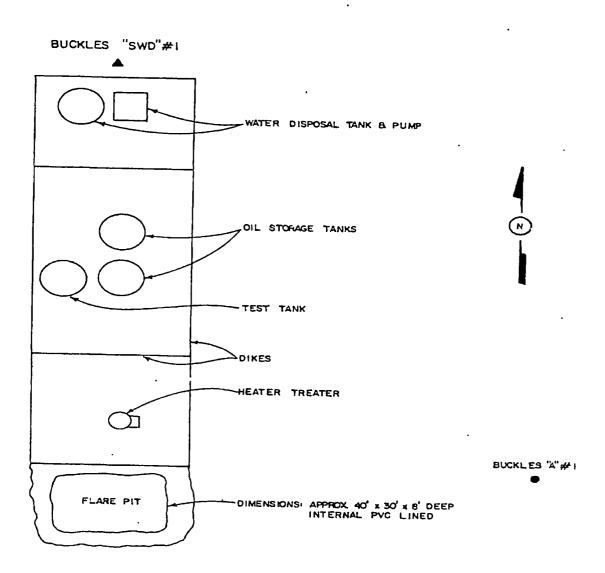
MAR02-0408

Title ACTING DISTRICT SUPERVISORDate OCT 26 1981

# TXO - BUCKLES "A" # | PLAN OF PRODUCING FACILITY

u. S. Geological Survey
RECEIVED

OCT 19 1981 Billings, Momona



MAR02-0409

LAH 10-16-81

**MAR-409** 



Mr. Ray Reede To Murphy Oil Corp. Box 547 From Poplar, Mt.

Magcobar Group

Inter-Office Correspundence

Date: November 26, 1987 PHILIPPE DICTEMPT

Subject: 6-D SWD

DEC 7.1981

Copy to Allan A. Anderson

Dear Mr. Reede:

Equipment repairs due to corrosion can be very costly. Di-Chem E-200-WB a water soluable amine corrosion inhibitor can be used to protect this fine system.

Recommendation: Inject Di-Chem E-200-WB at a dosage rate of (25 parts per million) one quart to every 250 barrels water per day.

Monitoring: Maintenance records along with coupon analysis will ensure the effectiveness of this program.

Di-Chem E-200-WB has an exceptionally high degree of film persistency. The surfactancy of this product will help keep the system clean of deposits. Application is no problem as the product is winterized to 40 below zero Farenheit.

Thank you Ray, for allowing Dresser Di-Chem and myself to be of service to and Murphy oil Corporation.

Respectfully,

Clan a Underson

Allan A. Anderson District Salesman

Williston, North Dakota

cc: Jerry Hagadon

R.J. Gray

MAGCOBAR NORTH AMERICA

# Fort Peck Tribal Research Program

P. O. Box 1338 Popiar, Montana 59255 406-768-6331

May 24, 1982

Production Manager Texas Oil & Gas Corp. Fidelity Union Tower Dallas, Texas 75201 RECEIVED

WE - Buckling

TEXAS OIL & GAS CORP.

DENVER DISTRICT

Dear Sir:

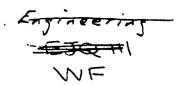
The Tribal Research Office on the Fort Peck Reservation located in Poplar, Montana would like to request a listing of all storage tanks used on both Tribal and allotted lands. We need both standard measurements and an actual straping of each of these tanks. The Research Office is contracted under the Bureau of Indian Affairs to police, verify, and monitor all oil production on the Fort Peck Indian Reservation. Thank you for your time and cooperation.

Sincerely,

John K. Alupter
John K. Dupree by 44H
Reseanch Director



# TXO PRODUCTION CORP.



DENVER DISTRICT
INTER-OFFICE MEMORANDUM

	Date: August 20, 1982
To: Charlie Canfield	From: S. G. Tillman
	Re: Buckles "A" #1

Attached for your information is an approved AFE to perform surface repairs on the referenced well. Additional details are contained in the attached memo from Ed Quinlan.

SEI

SGT/dkc

## **ITHORITY FOR EXPENDITURE** WORKOVER - RECOMPLETION

ΑĮ		
	Co. Cd.	

Date 8/20/82

strict	Wall Name	Buckles	A		Well No.	#1		
II Loca	tion 1980' FNL, 1980' FWL Section 22 -	1980' FNL, 1980' FWL: Section 22 - T28N - R51E			Depth <u>5937'</u>			
eld <u>Fast Poplar</u> County Roos			sevelt		State	Montana	ntana	
ason W	ork Required <u>Corrosion leak in flow lir</u>	ne		-				
sults Ex	xpected Regain production of 12 BC	)PD		<del></del>				
						-		
ork to B	BeginEstimator	d Date of Com	pletion					
epared 8	By E.J. Quinlan, III	Submitted By	- KON					
CAT.	NATURE OF EXPENDITURE	QUANTITY	ESTIMATED COST					
		<del></del>	CASH		MAT'L ON HAN	TOTAL	<del></del>	
	EQUIPMENT						+	
01	Casing						╀	
02	Tubing	<del> </del>				<del></del>	┼	
03	Wellhead	ļ	<u> </u>				┼	
05	Pumping Unit		<u> </u>			<del></del>	+	
06	Engine & Motor Rods	-	<u> </u>	<del> </del>		1	╀	
07	Subsurface Equipment						┿-	
08						+	<del> </del>	
09	Flow Lines Fiberglass line Installation	400'	1	500			500	
10	Storage	<del> </del>	4.	000		<del>-4</del>	000	
11	Separation & Treating	<del> </del>	<u> </u>	-			+-	
12	Other Equipment Injection Pump Liners		1	100		<del></del>	<del> </del>	
	+ Pausation Daupruse	1400 Week	3,	1		3,	000	
	TOTAL EQUIPMENT	1400	15	1 1			-	
	SERVICES & SUPPLIES	<del>-</del>	<u> </u>	500 !			500	
14	Supervision				<del></del>	<del></del>	+	
15	Mud & Chemicals	<del></del>		<del>                                     </del>			+	
16	Cementing Services & Supplies	<del>-</del>	<del> </del>			<del></del>	+-	
17	Testing, Logging & Perforating		-	<del>                                     </del>			+-	
18	Stimulation	<del></del>	<del> </del>				+	
19	Rig			1-1		_	$\top$	
20	Rentals						+	
21	Location, Road & Dirt Work		5	000			00	
22	Overhead		1	700		<del></del>	۳	
23	Other Trucking		1.	500		1	50	
		-						
	TOTAL SERVICES & SUPPLIES		6,	500		6.	,50	
	TOTALS	·	15.	000		15,	$\top$	
	BILLING INT	DATE			(this space fo	r approval only		
	WI OWNER NAME (7 decimals)  D Production Corp. 1.0000000%	8/20/82				٤	•	

Stephen G. Tillman Senior Vice President & District Manager

MAR02-0413

TXO 136 REV. 9/79

AFE No. 824154 Proposed No. 445500

the confidence of the first state of the continue of the conti

TXO PRODUCT	ION CC	JRP.					
Inter-Office Men	norandu	m					
			Date:	<u>Au</u>	igust 25,	198	2
To: Leonard andrum	From:_	Donald	Chase				Carlina
	Re:	Buckles	"A"	#1	#465	29	Contract
		Rooseve	lt Co	unty,	Montane	<u>.                                    </u>	

Attached is approved A.F.E. No. #82 4154 to workover the above referenced

Donald Chase

MAR02-0414

MAR-414

TXO FOODUCTION CORP FORM 136 Rev. 2:81

# **AUTHORITY FOR EXPENDITURE** WORKOVER - RECOMPLETION

A		1
	Co. Cd	_

				Da	ate <u>8/20/82</u>			
District _	<u>Denver</u> Well Name	_Buckles_/	<u> </u>		Well No	1		
	nion 1980' FNL, 1980' FWL Section 22	-						
Field	East Poplar (	County Roos	sevelt		State N	lontana		
	ork Required Corrosion leak in flow lin							
Results E	xpected Regain production of 12 BC	OPD						
		•						
Work to E	BeginEstimated	d Date of Com	pletion					
Prepared	By E.J. Quinlan, III	_ Submitted By			<del></del>			
CAT.	NATURE OF EXPENDITURE	QUANTITY			ESTIMATED COST			
NO.			CASH	·	MAT'L ON HAND	TOTA	L 7	
	EQUIPMENT							
01	Casing						-	
02	Tubing			<u> </u>				
03	Welliread			<u> </u>			<u> </u>	
04	Pumping Unit			<u> </u>			<u> </u>	
05	Engine & Motor					<del></del>	<u> </u>	
06	Rods							
07	Subsurface Equipment						<u> -</u>	
08	Flow Lines Fiberglass line	400'	1,	500		1,	500	
09	Installation		4,	000		4,	000	
10	Storage					····		
11	Separation & Treating							
12	Other Equipment Injection Pump Liners		3,	000		3,	000	
							<u> -</u>	
	TOTAL EQUIPMENT		8,	500		8,	500	
	SERVICES & SUPPLIES							
14	Supervision							
15	Mud & Chemicals TX0	PRODUCTION	CORP					
16	Cementing Services & Supplies							
17	Testing, Logging & Perforating A	UG 2 4 198	2					
18	Stimulation			<u></u>				
19	Rig UALI	LAS OPERAT	IONS					
20	Rentals							
21	Location, Road & Dirt Work		5.	000		5.	000	
22	Overhead							
23	Other Trucking		1.	500		1	500	
						<b></b> _	T	
<del></del>	TOTAL SERVICES & SUPPLIES		6	500		6.	500	
	TOTALS		H	hon			חחח	



# United States Department of the Interior

Bureau of Land Management P.O. Box 1838 Dickinson, North Dakota 58601

701-225.0488

TXO Prod. Co. Suite 300 2705 Montana Ave. Billings, Montana 59101 December 29, 1982

Re: NTL-2B Application for Salt Water Disposal is needed for the following well:

Buckles "A" #1 SE NW Sec. 22, T28N,R51E F.P. AL-14-20-0256-5066

#### Gentlemen:

A review of the above referenced well file indicates that there was no record of an NTL-2B Application submitted to our office after initial production. If you have our District Supervisor's approval in the form of his signature on an NTL-2B Application, then mail a copy to us so that our office has proof.

30 CFR (Code of Federal Regulations) 221.4 and 221.32 states that lessees and operators are required to file a NTL-2B Salt Water Disposal Application for any oil and/or gas well producing water on a Federal lease. NTL-2B procedures must be in compliance and the enclosed instructions must be followed. Your application for Salt Water Disposal must be received by our office in the form of a Sundry Notice within 15 working days upon receipt of this letter. A current water analysis and the enclosed checklist must be completed and attached to this Sundry Notice. Otherwise, TXO Prod. Co. is in non-compliance and subject to shut-in in accordance with 30 CFR 221.53.

If you have any questions concerning the NTL-2B process, call Warren Korinek, Jr. in Billings, Montana, at (406) 657-6367.

Sincerely yours,

Acting Ass't District Supervisor

SIGNED \_\_\_

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES	5. LEASE
DEPARTMENT OF THE INTERIOR	5. LEASE
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME
1. oil gas other	9. WELL NO.
2. NAME OF OPERATOR	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	AREA
AT SURFACE: AT TOP PROD. INTERVAL:	12. COUNTY OR PARISH 13. STATE
AT TOTAL DEPTH:  16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE.	14. API NO.
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
TEST WATER SHUT-OFF	(NOTE: Report résults of multiple completion or zone change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stat including estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertiner	irectionally drilled, give subsurface locations and
Subsurface Safety Valve: Manu. and Type	Set @ Ft
18. I hereby certify that the foregoing is true and correct	

(This space for Federal or State office use)

\_\_ TITLE \_\_

\_\_ TITLE \_\_

\_\_\_\_ DATE \_\_\_

\_\_\_\_\_ DATE \_\_

# NTL-2B Guideline and checklist

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MAR02-0418

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY CONSERVATION DIVISION

Notice to Lessees and Operators of Federal and Indian Oil and Gas Lesses (NTL-2B)

# Disposal of Produced Water

This Notice supersedes NTL-2 and 2A and is issued pursuant to the authority prescribed in 30 CFR 221.4 and 221.32. Lessees and operators of onshore Federal and Indian oil and gas leases or fee and State leases committed to federally supervised unitized or communitized areas shall comply with the following requirements for the handling, storing, or disposing of water produced from oil and gas wells on such leases.

As used in this Notice, the term "District Engineer" means the District Engineer, U.S. Geological Survey. However, in the State of Alaska, the requirements of this Notice will be administered by the Area Oil and Gas Supervisor.

# I DISPOSAL REQUIREMENTS AND APPLICATIONS FOR APPROVAL OF DISPOSAL METHODS

By October 1, 1977, all produced water from the above said leases must be disposed of by (1) injection into the subsurface; (2) lined pits; or, (3) by other acceptable methods. All such disposal methods must be approved in writing by the District Engineer regardless of the physical location of the disposal facility. Any method of disposal which has not been approved as of October 1, 1977, will be considered as an incident of noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by the District Engineer. Lessees and operators are encouraged to file applications in this regard as promptly as possible and are forewarned that applications for approval of existing disposal facilities which are filed after July 1, 1977, may not be timely approved.

MAR02-0419

No additional approval is required for facilities previously approved by the Geological Survey which involve the disposal of produced water into the subsurface or in lined surface pits. Likewise, no further approval is necessary for existing injection facilities utilized for pressure maintenance or secondary recovery operations.

Lessees and operators who are presently disposing of water in unlined surface pits must timely file applications with the District Engineer for approval of present or proposed disposal methods. Likewise, lessees and operators who are presently disposing of produced water in the subsurface or in lined surface pits without approval of the Geological Survey must also file applications for approval thereof by the District Engineer.

The District Engineer may require modification of any disposal facility prior to October 1, 1977, whenever it is determined that continued use of such facility is endangering the fresh water in the area or is otherwise adversely affecting the environment.

Any application to dispose of produced water must specify the proposed method of disposal and provide the information necessary to justify the method. Required information which must be included in applications for approval of produced water disposal in the subsurface, in lined pits, or in unlined pits is set forth in Sections II, III, and IV, respectively, of this Notice. Additional information may be required by the District Engineer in individual cases. Previous applications filed in response to NTL-2 and NTL-2A which do not meet the data requirements of this Notice must be supplemented or resubmitted.

A single application may be submitted for several leases or facilities provided that (1) the leases or facilities are located in the same field; (2) the produced water is from the same formation or is of similar quality; (3) the volume and source of the water is shown separately for each disposal facility; and, (4) the method of disposal is the same in every case.

# II DISPOSAL IN THE SUBSURFACE

If approval is requested for subsurface water injection in connection with secondary recovery operations or for disposal purposes, the lessee or operator must furnish information which includes:

- 1. The designated name and number of the proposed disposal well and its location in feet and direction from the nearest section lines of an established survey. The applicable Federal or Indian oil and gas lease number or other permit and/or the ownership of the surface and minerals if other than Federal or Indian.
- The daily quantity and sources of the produced water and a water analysis which includes total dissolved solids, pH, and the concentrations of chlorides and sulfates.
- 3. The injection formation and interval.
- 4. The quality of the fluids in the injection interval, i.e., total dissolved solids.
- 5. The depth and areal extent of all usable water (i.e., less than 10,000 ppm total dissolved solids) aquifers in the area.
- 6. The size, weight, grade and casing points of all casing strings, the size hole drilled to accommodate each string, the amount and type of cement, including additives used in cementing each string, and the top of the cement behind each casing string. In addition, bond logs may be required in certain instances.
- 7. The total and plugged back depth of the well.
- 8. The present or proposed method of completing the well for injection including the type and size of tubing and packer to be utilized, the setting depth of the packer, anticipated injection pressure, and information concerning any corrosion inhibitor fluid which is to be placed in the tubing-casing annulus.
- Plans for monitoring the system to assure that injection is confined to the injection interval and measures to be taken should it be necessary to shut-in the disposal system.

In order to be approved, subsurface disposal must be confined (1) to formations which contain water of similar or poorer quality than the injected water or (2) to formations that contain water of such poor quality as to eliminate any practical use thereof.

In general, it will be required that subsurface disposal be accomplished through tubing utilizing a packer which is designed to hold pressure from above and below. The packer should be set at a depth where the casing is protected by competent cement but normally not more than 50 feet above the injection interval. Other procedures or methods of subsurface disposal may be approved by the District Engineer when justified by the lessee or operator.

# III DISPOSAL IN LINED PITS

Where approval is requested for surface disposal in a lined pit, the lessec or operator must supply information which includes:

- 1. A topographic map of suitable scale which shows the size and location of pit.
- 2. The daily quantity, sources of the produced water, and a water analysis which includes the concentrations of chlorides, sulfates, and other constituents which are toxic to animal, plant, or aquatic life.
- The evaporation rate for the area compensated for annual rainfall.
- The method for periodic disposal of precipitated solids.
- 5. The type of material to be used for lining the pit and the method of installation.
- The method to be employed for the detection of leaks and plans for corrective action should a leak occur in the liner.

The material used in lining pits must be impervious, weather-resistant, and not subject to deterioration when contacted by hydrocarbons, aqueous acids, alkalies, fungi, or other substances likely to be contained in the produced water. Lined pits constructed after the issuance of this Notice must have an underlying gravel-filled sump and lateral system or other suitable devices for the detection of leaks. The District Engineer shall be provided an opportunity to inspect the leak detection system prior to the installation of the pit liner.

# IV DISPOSAL IN UNLINED PITS

Surface disposal into unlined pits will not be considered for approval by the District Engineer unless the lessee or operator can show by application that such disposal meets any one or more of the following criteria:

- 1. The water to be disposed of has an annual weighted average concentration of not more than 5,000 ppm of total dissolved solids, provided that such water does not contain objectionable levels of any constituent toxic to animal, plant, or aquatic life.
- That all, or a substantial part, of the produced water is being used for beneficial purposes. For example, produced water used for purposes such as irrigation and livestock or wildlife watering shall be considered as being beneficially used.
- 3. The water to be disposed of is not of poorer quality than the surface or subsurface waters in the area which reasonably might be affected by such disposal or the surface and subsurface waters are of such poor quality as to eliminate any practical use thereof.
- The volume of water to be disposed of per facility does not exceed five barrels per day on a monthly basis.
- 5. The specific method of disposal has been granted a surface discharge permit under the National Pollutant Discharge Elimination System (NPDES).

Applications for approval of unlined surface pits pursuant to exception Nos. 1, 2, 3, or 4, above, must include:

- The daily quantity and sources of the produced water and for exception Nos. 1 through 3, a water analysis which includes total dissolved solids, pH, and the concentrations of chlorides and sulfaces.
- 2. A topographic map of suitable scale which shows the size and location of the pit.
- The evaporation rate for the area compensated for annual rainfall.
- 4. The estimated percolation rate based on the soil characteristics under and adjacent to the pit.
- The depth and areal extent of all usable water (i.e., less than 10,000 ppm total dissolved solids) aquifers in the area.

Where beneficial use is the basis for the application, the justification submitted must contain written confirmation from the user(s) and the water analysis must also include the oil and grease content, temperature, and the concentration of other constituents which are toxic to animal, plant, or aquatic life.

If the application is made on the basis that surface and subsurface fresh waters will not be affected by disposal in an unlined pit, the justification must also include:

- Analyses of all surface and subsurface waters in the area which might reasonably be affected by the proposed disposal.
- Maps or plats showing the location of surface waters, fresh water wells, and existing water disposal facilities within two miles of the proposed disposal facility.
- 3. Reasonable geologic and hydrologic evidence showing that the proposed disposal method will not adversely impact on existing water quality or major uses of such waters; the depth of the shallowest fresh water aquifer in the area and the presence of any impermeable barrier(s).
- 4. A copy of any State order or other authorization granted as a result of a public hearing which is pertinent to the District Engineer's consideration of the application.

If the application is for disposal pursuant to an NPDES permit, only a topographic map showing the size and location of the pit together with a copy of the approved permit and the most recent "Discharge Monitoring Report" will be required.

### V GENERAL REQUIREMENTS FOR PERMANENT SURFACE PITS

Lined and unlined pits approved for water disposal shall:

- Have adequate storage capacity to safely contain all produced water even in those months when evaporation rates are at a minimum.
- Be constructed, maintained, and operated to prevent unauthorized surface discharges of water. Unless surface discharge is authorized, no siphon, except between pits, will be permitted.

- Be fenced to prevent livestock or wildlife entry to the pit, when required by the District Engineer.
- 4. Be kept reasonably free from surface accumulations of liquid hydrocarbons by use of approved skimmer pits, settling tanks, or other suitable equipment.
- Be located away from the established drainage patterns in the area and be constructed so as to prevent the entrance of surface water.

# VI TEMPORARY USE OF SURFACE PITS

Unlined surface pits may be used for handling or storage of fluids used in drilling, redrilling, reworking, deepening, or plugging of a well provided that such facilities are promptly and properly emptied and restored upon completion of the operations. Mud or other fluids contained in such pits shall not be disposed of by cutting the pit walls without the prior authorization of the District Engineer. Until finally restored, unattended pits must be fenced to prevent access by livestock and wildlife. Unless otherwise specified by the District Engineer, unlined pits may be used for well evaluation purposes for a period of 30 days.

Unlined pits may also be retained as temporary containment pits for use only in an emergency provided such pits have been approved by the District Engineer. Any emergency use of such pits shall be reported to the District Engineer as soon as possible and the pit shall be emptied and the liquids disposed of in an approved manner within 48 hours following its use, unless such time is extended by the District Engineer.

# VII DISPOSAL FACILITIES FOR NEW WELLS

With the approval of the District Engineer, produced water from wells completed after the issuance date of this Notice may be temporarily disposed of into unlined pits for a period up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer. Failure to timely file an application within the time allowed will be considered an incident of noncompliance and will be grounds for issuing a shut-in order until the application is submitted. With the approval of the District Engineer, the disposal method

may be continued pending his final determination. Once the District Engineer has determined the proper method of disposal, the lessee or operator will have until October 1, 1977, or 60 days following receipt of the District Engineer's determination, whichever is the longer, in which to make any changes necessary to bring the disposal method into compliance. However, if the disposal method then employed is endangering the fresh water in the area or otherwise constitutes a hazard to the quality of the environment, the District Engineer will direct prompt compliance with the requirements of this Notice.

# VIII UNAVOIDABLE DELAY

A single extension of time not to exceed three months (six months in arctic and subarctic areas) may be granted by the District Engineer where the lessee or operator conclusively shows by application that, despite the exercise of due care and diligence, he has been unable to timely comply with the requirements of the Notice provided that such delay will not adversely affect the environment.

# IX REPORTS

All unauthorized discharges or spills from disposal facilities must be reported to the District Engineer in accordance with the provisions of NTL-3.

Beginning October 1, 1978, and thereafter on an annual basis, lessees and operators must submit a report for each facility which includes the total volume disposed of during the reporting period and a current water analysis which provides the same type of information required for approval of the original application. Provided, however, that:

- 1. Where disposal is approved pursuant to Section IV (4), no annual water analysis will be required.
- Where disposal is approved pursuant to a NPDES permit, a copy of the required discharge monitoring report may be submitted in lieu of the above annual report.
- Where a single application was approved for several leases and/or facilities, a composite annual report covering all such leases and facilities may be submitted.

# X COMPLIANCE

Compliance with this Notice does not relieve a lessee or operator of the responsibility for complying with more stringent applicable Federal or State water quality laws and regulations, including those which are subsequently promulgated pursuant to the Safe Drinking Water Act (P.L. 92-523), or with other written orders of the Geological Survey.

Date 137

Area Oil and Cas Supervisor

APPROVED:

Russell G. Wayland

Chief, Conservation Division



# TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

January 19, 1983

U.S. Bureau of Land Management Oil and Gas Operations Post Office Box 2550 Billings, Montana 59103

Attention: Warren Korinek, Jr.

Re: Buckles "A" #1

Section 22-T28N-R51E Roosevelt County, Montana

### Gentlemen:

In response to the December 29, 1982 letter received from the Dickinson North Dakota BLM Oil and Gas Operations Office, a copy of an approved Sundry Notice regarding NTL-2B disposal of salt water from the above-referenced well is enclosed for your use. An NTL-2B technical information sheet is attached to the approved Sundry Notice.

The Buckles "A" #1 well is currently shut-in due to weather. TXO Production Corp. will notify your office in the event any changes in NTL-2B disposal status are contemplated.

If you have any questions or need additional information regarding the approved disposal method, please contact me at this office.

Very truly yours,

TXO PRODUCTION CORP.

Charles K. Curlee Environmental Manager

CKC/BS Enclosures/as stated

MAR02-0428

OIL & GAS CORR MAR-428

Form 9-331

SURFACE DISTURBANTS

MAY 12 1981

Form Approved.

Dec. 1973	Budget Bureau No. 42-R1424
UNITED STATES DEPARTMENT OF THE INTERIOR	5. LEASE F.T. PECK AL. 14-20-0256-5066
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS-ON WELLS	7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill or to deepen or plug back to a differe reservoir. Use Form 9-331-C for such proposals.)	8 FARM OR LEASE NAME / Buckles
1. oil gas well other hitsure formand	9. WELL NO.
2. NAME OF OPERATOR Yexas Oil & Gas Corp.	10: FIELD OR WILDCAT NAME
ADDRESS OF OPERATOR Suite 300, 2705 Montana Avenue Billings, M.	
4. LOCATION OF WELL (REPORT LOCATION CLEARLY, See space)	
below.)	Section 22-T28N-R51E
AT SURFACE: 1980' FNL, 1980' FWL AT TOP PROD. INTERVAL:	12. COUNTY OR PARISH 13. STATE ROOSEVELT Montana
AT TOTAL DEPTH:	Roosevelt Montana  14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTIC	·
REPORT, OR OTHER DATA  REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	15. ELEVATIONS (SHOW DF, KDB, AND WD) 2085'
TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly sincluding estimated date of starting any proposed work. If well i measured and true vertical depths for all markers and zones pertial.)	s directionally drilled, give subsurface locations and
Texas Oil & Gas Corp. proposes to drill a 950' of produced water from the Buckles "A" #1 well on the NW corner of the existing drill pad. Pinjected into the Judith River formation at a injection pressure. See attached sheet for temporary to the second se	The well would be located roduced saline water would be rate of 900-950 BWPD at 400 psi
·	
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
SIGNED TITLE Project Ma	mager May 8, 1981
APPROVED BY APPROVAL, IF ANY:	-//
SUBJECT TO NTL-6	
APPROVAL MEERED	
FOR ADDITIONAL See Instructions on Reve	rse Side

:::::::

Buckles "A" #1

NTL-2B Technical Information

Injection Well Buckles SWD #1

- 1. The injection formation is the Judith River Formation. The perforated interval will be 785' - 846' overall.
- 2. Hole size: 8 3/4" to 950' (T.D.)
   Casing: 7", 17#, J-55, ST&C to 950'
   Cement: 250 sks Class "G" w/2% CaCl, 1/4# sk

Cellophahe Flakes & 10# sk Gilsonite.

(Cement will be circulated to surface)

PBTD: + 900'

 Completion: a. Run corr. log & perforate.
 Run 2 7/8" tubing and tension packer. Circ. packer fluid into annulus. Set packer + 50' above top perf.

c. Run injection test. Stimulate with 15% HCl acid, if necessary.

4. The injection system will be monitored with high and low injection pressure shutdown switches. This will allow assurance that the system is injecting into the formation as intended.

To: Ron Imakan

From: Dhillip A. Kriz

RE: Buckles A #/
Sec 22, T28N, RSIE
Roosevell County, Montana

The Buckles A# / has produced 6/3 5780 since the electric motor to the Ealt water injection well was replaced on June 30, 1983.

The well is currently having problems with the injection well pressuring up and is froducing approximately 60% of the time and shut in the rest.

The well has paid off all the frevious workovers since Sept. 1982 and has had an approximate net revenue of \$14,000 for T10 assuming \$29/BBL and 6.5% Advances & Severance Taxes.

To: Dave Cloudie

From: DA. Kriz

RE: Buckles "A" # | Roosevelt County, Montona

As per your request, I have examined the economic standing of the Buckles "A" # 1

Since its Workovers during the summer. The results are based on the oil being priced \$29/BBL, All the major costs are considered, however some of the minor costs for Inly, August, & Soptember may not be. The results were as follows:

Since Sept. 1982

TIO Net Reviewe After Costs = # 20,100

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MAR-436

# WELL RECOMMENDATION MEMO

Date:		Prospect Name:
		Location: Sec. // Twp /3// Rge
		County: Practice of State Mark
Depth: 6/20 "		
Primary Objective Zone:_	1 1K 11	OilGas
Reserves & Economics		
Estimated Reserves:	MMCF	F
Reserve Method: Les	<u> </u>	
Reserve Parameters:	A:	Bg:
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Signed:\_\_\_\_

MAR02-0437

MAR-437



# TXO PRODUCTION CORP.

# DENVER DISTRICT INTER-OFFICE MEMORANDUM

	Date: January 6, 1984
To: Phil Kriz	From:Tim Loposer
	Re: <u>Buckles "A" #1</u> T28N, R51E, Sec. 22: SENW
	Buckles "B" #1 T29N, R51#, Sec. 22: SWNE Roosevelt County MT

Please be advised that TXO lease number 46529-000, which covers 100% leasehold interest in the NW/4 of Section 22, Township 28 North, Range 51 East, will remain in effect until December 15, 1985 if the Buckles "A" #1 is plugged and abandoned and no further drilling operation are commenced.

Further, TXO lease number 46665-000, which covers 100% of the W/2NE/4 of Section 22, Township 28 North, Range 51 East, will remain in effect until June 15, 1986 if the Buckles "B" #1 is plugged and abandoned and no further drilling operations are commenced.

If any additional information is needed, please advise.

T. L.

TL/tb



# TEXAS OIL & GAS CORP.

# Inter-Office Memorandum .

•				Date	April	<u>23, 19</u>	84
-	To: Steve Tillman V	_ ;	From:	Charle	s Canfie	<u>ld</u>	
٠	Denver District	. 1	Re:	ABANDO	NMENT AF	PROVAL	
				Buckle	s "A" #1		
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	Your recommendation to plug approved.	and	aban	don the	subjec	t well	l is
	Please forward all appropriate successful completion of pluggin	e fo	rms erati	to this	s office	upon	the
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MAR02-0439

John Holloway Jim Crowson Well File

# TEXAS OIL & GAS CORP.

FIDELITY UNION TOWER
DALLAS, TEXAS 7520:

November 25, 1980

Ms. Francis Eagleman Bureau of Indian Affairs Superintendent Ft. Peck P. O. Box 637 Poplar, Montana 59225

> RE: Austin Buckles Lease Archaeological Inspection

Dear Ms. Eagleman:

Texas Oil & Gas Corp. proposes to drill four (4) wells within our 160 acre Austin Buckles lease. The lease is located in the NW Quarter of Sec 22-T28N-R51E, Roosevelt County, Montana.

The four wells will be located in the center of the 40 acre quarter quarter section; SE/NW, SW/NW, NW/NW, and NE/NW.

Please initiate your archaeological inspection on the above mentioned locations. If you have any questions you can contact me in Dallas at 214-747-8341.

Sincerely, Municipal

James H. Sherrard

Environmental Administrator

JHS:nb

cc: John Gilbert - Billings Charlie Curlee - Denver

RECEIVED

0 - 3.1980

TEXAS OIL & GAS CORP.
DENVEH DISTRICT

MAY 12 1981

**MAR-441** 

Form 9-331 Dec. 1973

APPROVAL NEEDER

FOR ABBITTONAL

SURFACE DISTURBANCE

Form Approved. Budget Bureau No. 42-R1424

UNITED STATES DEPARTMENT OF THE INTERIOR	5. LEASE <i>FT. PECH AL</i> . 14-20-0256-5066
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME AUSTIN R. Buckles
SUNDRY NOTICES AND REPORTS ON WELLS.  (Do not use this form for proposals to drill or to deeden or plug back to a different	7. UNIT AGREEMENT NAME
reservoir, Use Form 9-331-C for such proposals.)	8 FARM OR LEASE NAME Buckles
1. oil gas well other cities comand	9. WELL NO.
2. NAME OF OPERATOR Yexas Oil & Gas Corp.	10. ELELD OR WILDCAT NAME
3 ADDRESS OF OPERATOR Suite 300, 2705 Montana Avenue Billings, MT	N/A
4. LOCATION OF WELL (REPORT LOCATION CLEARLY, See Space 17	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
below.) at surface: 1980' FNL, 1980' FWL	Section 22-T28N-R51E  12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	Roosevelt Montana
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE.	14. API NO
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 2085
SHOOT OR ACIDIZE	(NOTE: Report results of multiple completion or zone change on Form 9-330.)  ;
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statingleding estimated date of starting any proposed work. If well is different and true vertical depths for all markers and zones pertinent	irectionally drilled, give subsurface locations and
Texas Oil & Gas Corp. proposes to drill a 950' was of produced water from the Buckles "A" #1 well. on the NW corner of the existing drill pad. Prodinjected into the Judith River formation at a rainjection pressure. See attached sheet for technique.	The well would be located duced saline water would be te of 900-950 BNPD at 400 psi
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
SIGNED A Project Manage	ger May 8, 1981
APPROVED BY APPROVAL IF ANY:	ice use)
SUBJECT TO HTL-4	MARO

\*See Instructions on Reverse Side

Buckles ''A'' #1
NTL-2B Technical Information

Injection Well Buckles SWD #1

- The injection formation is the Judith River Formation. The perforated interval will be 785' - 846' overall.
- 2. Hole size: 8 3/4" to 950" (T.D.) Casing: 7", 17#, J-55, ST&C to 950"

Cement: 250 sks Class "G" w/2% CaCl, 1/4# sk Cellophahe Flakes & 10# sk Gilsonite.

(Cement will be circulated to surface)

PBTD: + 900'

3. Completion: a. Run corr. log & perforate.

b. Run 2 7/8" tubing and tension packer. Circ. packer fluid into annulus. Set packer + 50' above top perf.

c. Run injection test. Stimulate with 15% HCl acid, if necessary.

4. The injection system will be monitored with high and low injection pressure shutdown switches. This will allow assurance that the system is injecting into the formation as intended.

Form 9-331 C (Mar 1963)			_	SUBMIT IN TR	. <b>o</b> n	Porm approx Budget Bure	red. au No. 42-R1425.
		ED STATES		reverse si	de,	Contract No	
	DEPARTMEN'			τ		2. FEGBBBCCCCCOO)	COCCUENCAGO
	GEOLO	GICAL SURV	EY			14-20-0256- 6. IF IMPLAY, ALLOTTI	-5066
APPLICATION	Y FOR PERMIT	TO DRILL, I	DEEPEN,	OR PLUG B	ACK_	Austin R. J	
la. TIPE OF WORK	50			2116		T. ONET AGREEMENT	
DR b. Tipe of Well		DEEPEN !		PLUG BAC	-K 🗀 .j	: N/A	A A A
OTL C	IS OTHER	S.W. Disposa	al sincle	XX ZONE	ن ا <sup>ع</sup>	S. FARM OR LEASE NA	- ·
2. NAME OF OPERATOR	CLC OTHER		20.72	2011		Ruckles	
Texas Oil & G	as Corp.					9. WELL NO.	
3. ADDRESS OF OPERATOR						''Slv")'' #1	
Suite 300, 27	05 Montana Aven	ue, Billing	s, Monta	na 59101		10. FIELD AND POOL	OR WILDCAT
At surface	eport location clearly and	I in accordance wit	th any State r	equirements.")		11. SEC., T., E., M., OR	
-	853'FWL					THE REAL OF Y	RLE
1803' FNL, 1					•	Section 22	-T28N-R51F
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	AIST TOWN OF POS	T OFFICE.		:	12. COUNTY OR PARIS	
	6 miles NNE of	Poplar, Mo				Roosevelt	Yontan
13. DISTANCE FROM PROPO LOCATION TO NEARES	r			CRES IN LEASE		P ACRES ASSIGNED .	
PROPERTY OR LEASE ! (Also to Deares; dr)	g. unit line, it any)	4831		.60		<u> </u>	
15. DISTANCE FROM PROT TO NEAREST WELL, D OR APPLIED FOR ON TH	BILLING, COMPLETED,		19. PROPOSE	0 DEPTH 250	l .	ET OR CABLE TOOLS	<b>::</b> -
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)		<u> </u>		<u> </u>	22. APPROI. DATE W	ORE WILL START
2085' GR			_			'ay 11, 1	1981
23.		PROPOSED CASE	NG AND CEY	CENTING PROGEA	N	· <u>:</u>	:
SUL OF HOLE	SEZE OF CASING	WEIGHT PER P	007 S	SETTING DEPTH		. 'QUANTITI OF CEM	ENT .
8 3/4"	7''	175		<u>950 i</u>	:	250 sxs <sup>2</sup>	<u> </u>
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		•				· · ·	<i>,</i>
			-		•		•

IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive agreeand proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program. If any.

BIGNED ABUSEN	TITLE _	Project Manager	5-8-81
(This space for Federal or State office use)			
PERMIT NO.	· · ·	APPROTAL DATE	
APPROVED BY	TITLE _		DATE

# 9-331 C ADDENDUM Buckles "A" #1 Section 22-T28N-R51E Roosevelt County, Montana

l.	SURFACE	FORMATION:	Bear Paul

<b>-</b>	- ~ -	- Y L 1 1.			1 1 A		<b>=</b> 0 DC
2.	E.S.1	LIMA	151)	FOR.	MΑ	HON	TOPS:
							. •

Judith River 730'

ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:

Expected Oil and Gas Zones:

Judith River

Brackish Water

- CASING PROGRAM AS PER FORM 9-331 C.
- PRESSURE CONTROL EQUIPMENT: 5.
  - A. As no abnormal pressures are expected, no pressure control equipment: is to be used.
- MUD PRÒGRAM:
  - T.D.
- AUXILIARY EQUIPMENT:
  - A. A kelly cock wil be available, as necessary.
  - B. A float at the bit will not be used.

MAR02-0444

- C. A gas-detecting device hot wire will not be used.
- D. A desander and/or desilter will be utilized as required.
- 8. CORING, LOGGING, TESTING PROGRAM:
  - A. No coring is anticipated.
  - 5. No open hole logging is anticipated.

# 9. ABNORMAL CONDITIONS:

- A. No abnormal pressures or temperatures are expected.
- B. No hazardous gases such as H2S are expected.
- C. No sloughing or washouts are expected.

# 19. ANTICIPATED STARTING DATES:

•		
Spud	•	May 11, 1981.
Complete Drilling		May 13, 1981
Completed, ready for injection		June 15, 1981

Sec. 22-T28N-R51E Roosevelt County, Montana

# ro contract file Made - up

THIS RECORD HAS BEEN REMOVED FROM LEANY ARCHIVES AND SHOULD BE RETURNED FOR REFILING RABMUN RADRO

ACCOUNT NUMBER

FORM 24	IL & GAS CORP. AUTHORITY FOR DRILLING	EXPENDIT	URE	Di	May 6,	1981 ^ [	15 Co. Cd.
Rev. 9/017 District	Montana/North Dakota Well Name Bu						
	tion Sec. 22, T28N-R51E				05	0'	•
Well Loca ت	E. Poplar	Roc	osėvelt			tana	_
Field	E. Popiai	County		000	State		
Prepared I	By: H. J. Kagie Submitted By	: Ron Becl	ker Æ	JUN ,	Dallas	X_Distric	t <u></u>
CAT.	NATURE OF EXPENDITURE	QUANTITY			ESTIMATED COST		
NO.			CASH	T	MAT.L ON HAND	TOTAL	T
	DRILLING			200			200
01	Casing Casinghead		<del></del>	2.00			
03	Location, Road & Dirt Work		<del></del>	100			400
04	Drilling - Footage/Turnkey	,				<del></del>	
05	Drilling - Daywork	<del>  </del>	12	000		12	იიი
06	Drilling - Rig Support		2	000		2	pon
07	Bits			400			100
08	Supervision			200	·		200
09	Overhead .	· .		100			100
10	Mud & Chemicals	·		400			400
11	Cementing Services & Supplies	1					
12	Testing & Logging				•		<u> </u>
13	Rentals .			300			300
14	Other IDC						
15	Other Equipment				<del>  </del>	<del> </del>	
	TOTAL DRILLING		16	000		16	000
<del></del>				1	<del></del>		1
17	Casing 7", 20#, K-55, ST&C	950'	. 10	500		10	500
18	Tubing 2 7/8", 6.5#, J-55, EUE, 8RD	900'		900		4	7
19	Wellhead .		<u> </u>	800			800
20	Subsurface Equipment		1	400		1	400
21	Supervision			200			200
22	Mud & Chemicals			200			200
23	Testing, Logging & Perforating		3	000		.3	000
24	Stimulation 5		.3	000		- 3	
25	Overhead			LOù			100
26	Rentals		1	ეიი		1	ງທຸດ
27	Service Rig		4	000		4	000
28	Cementing Services & Supplies Other IDC		4	BOO	· ·	4	800
29	Other IDC TOTAL COMPLETION	<u> </u>	7.4				
	PRODUCTION EQUIPMENT		34	000		34	<u> </u>
32	Pumping Unit					<u> </u>	-
33	Engine & Motor	<del> </del>				-	<del> </del>
34	Rods		<del></del>				
35	Flow Lines .		1	000	<del></del>	1	hon
36 .	Meters	· .	<del></del>				
37	Installation .		. 2	000		2	non
38	Storage .						
39	Separation & Treating			<u> </u>			
40	Other Equipment		48	<u> 000</u>		48	ეიი
•	TOTAL PRODUCTION EQUIPMENT		51	000		51	ეეე
L	TOTALS	<u>.</u>	101	000	<u> </u>	101	boo
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Ţ	EXAS OIL & GAS CORP.	•			•	-	
•••	MAV 1.5 1001	MAR02	-0447		MAR-44	.7	_
1.	MAY 1 5 1981	garangan saga				-	51
	DALLAS - OPERATIONS	APP NI	81 - 869		/ Property No	7839	1
	Water Committee	AFE NO.	01 00		rroperty No		
	1						

TEXAS OIL & GAS CORP.

# CONNECTION NOTICE

DISTRICT MONTANA/NORTH DAKOTA PROJECT REPORT-NO. 15 DATE 5-20-81
XX INITIAL NOTICE OF NEW CONNECTION
OPERATOR: TXO
PROPERTY/ LSE NAME: BUCKLES "A" #1 WELL TXO PROP OR LSE-A/C NO.: 46529
LOCATION: SENNY Section 22, T28N, R51E
FIELD East Poplar COUNTY: ROOSEVELT STATE: MONTANA
TXO/SUB. RI/ INTEREST: WI-XX ORR- PURCHASER- PROCESSING- OTHER-
CLASSIFICATION: WELL- Oil-X Cas/Cond- Dry Gas- OTHER-
DATE 1ST PRODUCTION: OIL 5-5-81 GAS PLANT PRODUCTS
INITIAL DELIVERY: DATE PRICE BASIS
OIL 5-13-81 Newly discovered crude, decontrolled price.
CONDENSATE
PLANT PRODUCTS
GAS
NAME OF PURCHASER:  *SELLERS REPRESENTATIVE/PAYEE  Name & Address
OIL Marathon Oil Company  COND. PLT/PROD
*CONTRACT: NOFULLY EXECUTED=YESNOStatus
*CONTRACT BRIEF DISTRIBUTED: YES- NO- Status
*SYSTEM CONNECTED TO:
REMARKS / ADDITIONAL INFORMATION / REVISION DETAIL
TXO WI = 100% BPO

TEXAS OIL & GAS CORP.

70NO 3 1981

DALLAS - OPERATIONS

MAR02-0448

GAS CONTRACTS OK

MAR-448

PREPARED BY:

APPROVED

MBesher

rev 8/72

MAR-449

# INITIAL PRODUCTION—(Continued)

		this.	Ţ.			•
Initial 10-day average production	N/A	(bbl	l./day) (if tal		Carda	::3
Pressures (if measured): Tubing	415 P	si flowing;		500		psi shut
LASING	h Pro	si flowing; _		. )		psi shut
Gravity 36:6 API (corr	ected to 60° F.)		t transferrate at			
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# LOG RUNS

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Type	From	[~~ To '
DLL-NSFL	5943'	1220'
GR-CVL-FDC	5943!	3910'
GR-CNL	1500'	100'
BHC Sonic	5943'	1220'
matterial a suba capter desire.		

			The state of the s	<del>.</del>
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			[Need not be filled out if Geologist sample description filed with Commission)	estar, and a second
From		То	SAMPLE AND CORE NO. AND DESCRIPTION	Top of Formetion
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•		·	Greenpoint	5695
			Charles "C"	5800
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1a TYPE OF WEL	L: 011.	rr 🏹	WELL [	J 51	RT 🗌	Other				7. UNIT AOR	EEMIENT	TMAN
L TYPE OF COM		EP	PLDG C	ם בות						N/A		
WELL X	N3		PLDG BACK	_ ccs	ra.	Other			==_	S. FARM OR		NAME .
2. NAME OF OPERAT		022							•	Buckles		<del></del>
3. ADDRESS OF OPE	il & Gas C	orp.							<del></del>	''A'' No		
•• •• • • • • • • • • • • • • • • • • •	00, 2705 M	ontai	na Ave.	Bill	ings.	МТ 59	101			ľ		, OR WILDCAT
4. LOCATION OF WE								1:4)*		F. Pon	lar	
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At top prod. int	erval reported be	elow	SAME		•					: : :		
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At total depth	SAME	•		1.14 75			D. T.	ISSUED		12. COUNTY		13. STATE
				14. PE	BX11 NO.	:. 	,	-25-81		Roosev		ļ
15. DATE SPEDDED	16. DATE T.D. E	REACHE	17. DAT	E COMPL. (	(Ready t	o prod.)   1	<u> </u>		P PER I	T, GR, ETC.)		Montana LLEV. CASINGBEAD
4-1-81	4-15-81		1 .	-4-81	•	• • •		97' PKB			2	985' GL
20. TOTAL DEPTH, MD	1		T.D., MD A	TVD   22.		TIPLE COMPI		23. INT	RVALS	BOTARY TO	<del></del>	CABLE TOOLS
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24. PRODUCING INTER	IVAL(S). OF TEIS	COMPL	ETION-TOP	. BOTTOM.	NAME (1	ND AND TVD)	•	· · · · · · · · · · · · · · · · · · ·			25	. WAS DIRECTIONAL SURVEY MADE
Top @ 5800	'. BTM € 5	8501	Charl	es "C"	' form	nation				• -		No
26. TYPE ELECTRIC	·									•	27 10	AS WELL CORED
DLL-MSFL,			Sonic	. •		•		• .		•	21. "	•
28.	OR CRE I DC	, 511			RD (Ren	ort all strin	DA ACT	in well)				No ·
CASING SIZE	WEIGHT, LB.	/FT.	DEPTH SE			LE SIZE	1		ENTING	RECORD		AMOUNT PULLED
8 5/8''	24#	•	1220	1	12	1/4"	10	000 sx	Class	: ''G'' ६ 1	.50 s	x N/A
							Ca	al-Seal	circ	. to sur	:face	-
5 1/2''	15½ & 1	7#	5933			7/8''	1	20 sx @	shoe	,		N/A
<del></del>			DV too		300'		4	40 sx @				
29.			RECORD		•	1 (		30.		TUBING REC		-
N/A	TOP (MD)	80170	(מא (אם	SACES CE	MENT	SCREEN (	MD)	2 7/8		5670'	40)	26101
- :VA	<u> </u>	ļ	<del></del>		<del></del>			-2 1/0	<del>'</del>  -	3070		207.1
31. PERFORATION BEG	ORD (Interval, e	ize and	number)	•		32.	A	CID, SHOT.	FRACT	URE, GEMEN	T SQU	EEZE, ETC.
E706 - E000	. 7711 4:		17' cho+			DEPTH II	NTERV	L (MD)	AM	OUNT AND RI	ND OF	MATERIAL USED
5796 - 5800	, .35 ar	a., .	7, 2110 (	.5	:	5796-	580	י ס '	25	n gals.	15%	HCL
•	• ··		, -		•							
										·	3.4	A DO2 0451
33.*		<del>.</del>		<del></del> -	D.P.C.	DUCTION				<del></del>	iVI	AR02-0451
DATE FIRST PRODUCT	ION PROD	CCTION	METHOD (	Flowing, p		umping—4iz	e and	type of pun	np)			3 (Producing or
5-4-81	`	Flow	ing							**	utin) F	roducing
DATE OF TEST	HOURS TESTED		HORE SIZE		N. FOR PEBIOD	011-8BL		ers—n	CF.	WATEQ-BB		GAS-OIL BATIO
5-10-81	24	1	2/64''		<del>&gt;</del>	82		NR		897	7	भार
FLOW, TUBING PRESS.	CASING PRESSU		ALCULATED 4-BOUE RAT			1	MCF.	1	W.ATEL-		OIL C	RAVITY-API (CORR.)
415	pkr.	1	<del></del>	82	<u> </u>	ر ا	√R		88			.36.6
34. DISPOSITION OF C	- Cold, used fo	r juci, t	enica, cic.)							TEST WITH		
Vented 35. LIST OF ATTACE	MENTS				<del></del>	<u> </u>				l lexas (	<u>,111 }</u>	Gas Corn.
DST repor	that) the foregol	los/and	aftached in	nformation	is comp	plete and cor	rect s	as determin	ed from	all available	records	·
`	Ter !	Work	£			Dan de la la	_				.,	
SIGNED	My y.	/ yell	1	TI	TLE _	Project	FUG	ineer		DAT	'E _^16	ev 11, 1981

# INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions,

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sucks Coment": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hem 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

1452

FORMATION TOP	поттом	DESCRIPTION, CONTENTS, ETC.		: TO	P .
Szagut Zuel 1750- reenhorn 2356		Black calcareous shale	NAMB	MEAS, DESTI	TRUB VERT. DEFT
uddy 2954		Interbedded silty sand & shale	Greenhorn	2356	. : .
akota SS 3230		Sand	<sup>n</sup> ierdon	4119	
wift 3607	:	Silty glauconitic SS	Piper Ln	4363	;
ierdon 4119	,	Silty shale, marlstone	Kibbey Im.	5313	1
iper 4363	:	Interhedded 1s & sh	Charles	5464	
nsden 4737	·	Interbedded ls, dolo, minor silt stone-sha		5800	
yler 4863		Sand, & shale, some 1s & dolo			" !
tter 5017	l,	Shaly is A dolo	·		1
ibbey 5182		Sand & siltstone, monor ls.			
harles 5464	1	Ls, salt, dolomite			1 .
D : 5944			5.		
ST #1 5780-5840 Charl	es ''C'' zone -	Open 21 min. FTS 21", rec. 5840 HGGOCM			
		Shut in 90 min.			
		FP 2380			1.
		SIP 2933			
_					
	•				
	•				
<b>R</b>				5.	2 - 3 1 3
R02.					

GPO 680-147

TEXAS OIL & GAS CORP. AS OIL & WITTERST 9-331
BILLHOS DEC. 1973 MAR 10 1981

12000

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

UNITED STATES  Occ. 1973  UNITED STATES  Occ. 1981  DEPARTMENT OF THE INTERIOR  GEOLOGICAL SURVEY	Form Approved.  T. PECK AL. Budget Bureau No. 42-R1424  5. VEASE/ Contract No. 14-20-0256-5066  6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS.  (Do not use this form for proposals to drill or to deepen or prug vacknota different reservoir. Use Form 9-331-C for such proposals.)	· Austin R. Buckles
1. oil gas well other  2. NAME OF OPERATOR  Texas Oil & Gas Corp.  MAR 6 1981  Billing& Montana	Buckles  9. WELL NO. "A" #1  10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR  Suite 300, 2705 Montana Ave., Billings, MT  4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	N/A  11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  Section 22-T28N-R51E
AT SURFACE: 1980' FNL, 1980' FWL AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	12. COUNTY OR PARISH 13. STATE Roosevelt Montana 14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)

2085' GR

A65.17 .

S. Albert

. ...

REPAIR WELL (NOTE: Report results of multiple completion or zone PULL OR ALTER CASING change on Form 9-330.) MULTIPLE COMPLETE CHANGE ZONES ABANDON\* (other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

SUBSEQUENT REPORT OF:

Size of	Casing	Weight	Setting		Cement
<u> Hole</u>	_Size_	,	Depth		Quantity ·
124"	8 5/8"	24# New	1200'		Circulate to Surface
<u>.</u> 7 7/8''	5½"	15.5# & 17#	6000'	•	700 sacks

..Texas Oil & Gas Corp. intends to set surface casing at 1200' rather than at 600' as initially proposed. Casing and cementing program will be as follows:

MAR02-0453

Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
SIGNED Les Heath by CK TITLE DISTRICT Engineer DATE	
APPROVED BY APPROVAL IF ANY:	3/9/81

NOTICE THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD. (SUBMIT IN QUADRUPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION JAN 1981 OF THE STATE OF MONTANA HECEIVED

BILLINGS OR SHELBY

MAC 36-3.18(10)-S18030 MAC 36-3.18(10)-518140 MAC 36-3.18(10)-S18170 MAC 36-3.18(10)-S18200 MAC 36-3.18(10)-S18310 OIL & CAS COMS. COMM. MAC 36-3.18(10)-518380 STATE OF MUST. COMM. CMAC 36-3.18(14)-518380

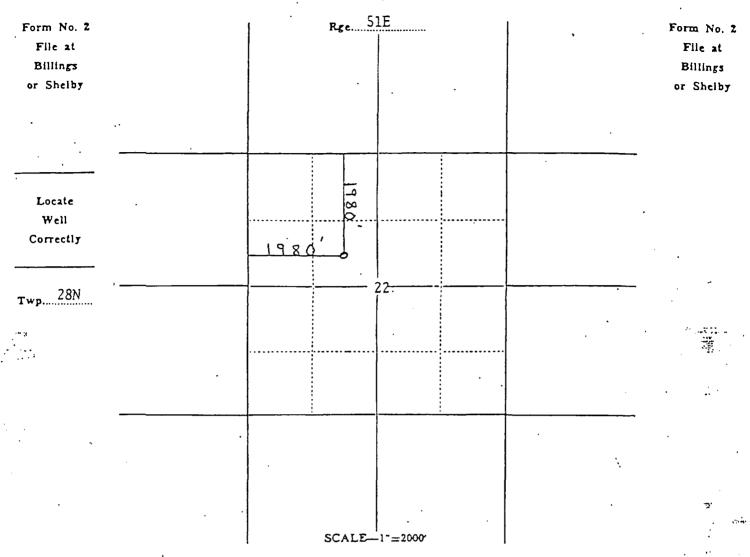
MAC 36-3.18(10)-S18020

SUNDRY NOTICES AND REPORT OF WELLS LLINGS

SONDKY NOTICES	AND KEI OKT OF VICENCE OF THE SECOND OF THE
Notice of Intention to Drill X	Subsequent Report of Water Shut-off
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repairer FINEU 41373 Subsequent Report of Abandonmentall N 12 Supplementary Well History
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonmannilly " 1997:
Notice of Intention to Pull or Alter Casing	Report of Fracturing CHECK DERMIN
Notice of Intention to Abandon Well	Report of Fracturing CHEON SERMIN
	-111111
(Indicate Above by Check Mark	Nature of Report, Notice, or Other Data) EXPIR.
•	January 27, 19.81
Following is a \notice of intention to do work on land	d } owned { described as follows:
report of work done	LEASE Buckles
	Roosevelt E. Poplar
MONTANA (State)	(County) (Field)
A-1 $C-S=N(A)$ 22	T28N R51E MPM
Well No. A-1 C-SENW 22	(Township) (Range) (Meridian)
The well is locatedft. from \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	d1980 ft. from $\begin{cases} \frac{X}{W} & \text{line of Sec.} \end{cases}$
LOCATE WELL SITE ACCURATELY ON PLAT ON BAC	•
The elevation of the ground or KOS, above the sea level is	
READ CAREFULLY DETAILS O	F PLAN OF WORK READ CAREFULLY
(State names of and expected depths to objective sands; show important proposed work, particularly all details of Shooting, Ac	size, weights, and lengths of proposed casings, cementing points, and all other ridizing, Fracturing.)
DETA	ILS OF WORK
•	RESULT NO THE ENTING SET AT FEMALES
1. Drill 12½" hole to ± 1200". Set 8 5/8	3", 24#, K-55, casing and cement to surface.
2. Drill 7 7/8" hole to + 6000". Log, ev 17#, K-55 casing at + 6000", with 700	valuate, and if warranted set 5½", 15.5# ६ ) SX cement.
3. Perforate Mission Canyon and complete	as a single oil well. MAR02-0454
	FILING WITH THE COMMISSION ALL LOGS.
	REPORTS, SURVEYS AND ANALYSES MADE
	ON OUR TO MEDIATED IN ADDOOD THE THE
SALTWATER PITS SHALL BE IMPERMEABLE	OR RUN IS REQUIRED IN ACCORDANCE WITH
!	RULE NO. 230.
	Company Texas Oil and Gas Corp./
Approved subject to conditions on reverse of form	Company 10x43 Off and das corp.7
FEB 9 1981 .	By Leo A. Heath 1-6 U. NORTH
ORIGINAL SIGNED BY	
By CHARLES G. AAIO Extraction Title  District Office Agent Cologist Title	Title District Engineer 2705 Montana Avenue, Suite 300
District Office Vigent 2 Little	Address Billings, Montana 59101
Y .	Vogtes Theresis Arterials and the second sec

BOARD USE ONLY API WELL NUMBER COUNT

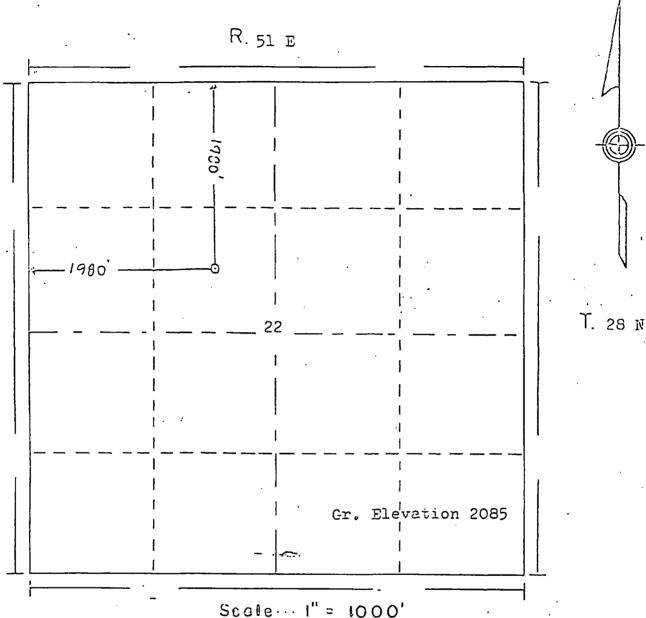
NOTE:-Reports on this form to be submitted to the appropriate District for approval DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY MAR-454 Locate v by footage measurement from legal subdiver 1 (Section) line and nearest drilling or producible well, if any.



### THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

- 1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand and one (7,001) feet and deeper, one hundred lifty dollars (\$150.00).
- 2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana.
  - 3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.
- 4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.
- 5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.
- 6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.
- 7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, after casing, etc. must be presented on Form No. 2 for approval by the Board prior to commencement of work.
- 8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.
- 9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.
- 10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 36-3.18(10)-S18310 and one copy of all cementing records as furnished by the cementing company and described in Rule 36-3.18(10)-S18350.
- 11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.





Powers Elovation of Denvar, Colorado
has in accordance with a request from Charlie Curlee
for Texas Cil & Cas Corp.
determined the location of Buckles A #1
to be 1980fnl, 1980fvl Section 22 Township 28 N
Range 51 E of the Hontana Principle Meridian
RooseveltCounty, Montana

I hareby certify that this plat is an accurate representation of a correct survey showing the location of Buckles A #1

MAR02-0456

Date: \_\_1\_7\_81

Licensed Lund Surveyor No. 21348

State of Montana

**MAR-456** 

la. TYPE OF WORK

SUBMIT IN TR 'ATE

(Other instruct

PLUG BACK

Form approved. . Budget Bureau No. 42-R1425.

### UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BA

reverse side)

DEEPEN

	Contract No	•
i	5. LANA DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	14-20-0256-5	066
CK	6. IP INDIAN, ALLOTTEE	OR TRIBE NAME
	Austin R. Bu	ckles ·
	7. UNIT AGREEMENT NA	ME
	N/A 8. FARM OR LEASE NAM	1
	S. FARM OR LEASE NAM	E
	Buckles	
	9. WELL NO.	
urvey	'''A'' #1	
-	10. FIELD AND POOL, OF	B WILDCAT
	N/A	
	11. SEC., T., R., M., OR B AND SUBVEY OR AB	LK
١ <b>a</b>	Section 22-T	28N-R51E
	12. COUNTY OR PARISH	13. STATE
t,	Roosevelt	Montana
	OF ACRES ASSIGNED	
	40	

b. TYPE OF WELL MULTIPLE ZONE SINGLE WELL , 2. NAME OF OPERATOR Texas Oil & Gas Corp 3. ADDRESS OF OPERATOR U. S. Geologicol S Suite 300, 2705 Montana Avenue, Billings, Montana 59102.

4. LOCATION OF WELL (Report location clearly and in accordance with any State regular report in V At surface 1980' FNL, 1980' FWL JAN 21 1981 At proposed prod. zone 1980 FNL 1980 FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEABEST TOWN OR POST OFFICE\* Billings, Montai Approximately 6 miles NNF of Poplar, Montana

13. Distance from Proposed\*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig, unit line, if may)

660'

160

160

18. DISTANCE FROM PROPOSED LOCATION®
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 21. ELEVATIONS (Show whether DF. RT, GR. etc.) 2085' GR

DRILL X

22. APPROX. DATE WORK WILL START\* February 10, 1981

20. ROTARY OR CABLE TOOLS

Rotary

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CABING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12½"	8.5/8"	24#	600'	450 sxs
7 7/8"	5 <sup>1</sup> 511	15.5# & 17#	6000'	700 sxs
<u></u>		· · · · · · · · · · · · · · · · · · ·		

19. PROPOSED DEPTH

6000'

The need for a pit liner will be determined by an on-site inspection after the pit is constructed.

An 18" culvert will be installed where the East access road crosses the drainageway, An case the well is a producer.

Topsoil will be stockpiled separately to be replaced after drilling is completed. Otherwise, I concur with the proposed plan as discussed.

MAR02-0457

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

<u>Project Manager</u> TITLE (This space for Federal or State office use)

PERMIT NO.

TITLE ACTING DIS

APPROVAL DATE

Charles Laakes

CONDITIONS OF APPROVAL, IF ANY:

ANY FLARING OR VENTING OF @ GAS SUBJECT TO NTL 4.A DATED 1/1/80

Form 9-331 Dec. 1973

Theory...

Dec. 1973	Contract No. Budg	et Bureau No. 42-R1424
UNITED STATES	5.)000000000000000000000000000000000000	
DEPARTMENT OF THE INTERIOR	14-20-0256-5066	
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTER	
Survey	Austin R. Buckle	
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT N	AME
(Do not use this form for proposals to drill or to deepen or plug back to a sufferent reservoir. Use Form 9–931–C for such proposals.)	8. FARM OR LEASE NAM	<u> </u>
	Buckles	_
1. oil gas other Sep 1281	9. WELL NO.	
2. NAME OF OPERATOR	"A" #1	•
TXO Production Corp.	10. FIELD OR WILDCAT	IAME
/3. ADDRESS OF OPERATOR	Fast_Po	plar Field
<u>Suite 300, 2705 Montana Avenue, Billings, Montana</u>		LK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY, See space 17	AREA	
below.) 1980' FNL, 1980' FWL AT SURFACE: Sec. 22-T28N-R51E	Sec. 22-T28N-1 12. COUNTY OR PARISH	
AT TOP PROD. INTERVAL: same	ľ	
AT TOTAL DEPTH: Same	Roosevelt 14. API NO.	Montana
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,		
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW	DF, KDB, AND WD)
DECULEST FOR ADDROVAL TO. CURSTOUTHY DEPOST OF	2085! CR	· · · · · · · · · · · · · · · · · · ·
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:		
FRACTURE TREAT		
SHOOT OR ACIDIZE		
REPAIR WELL	(NOTE: Report results of mi change on Form 9-	
MULTIPLE COMPLETE	Change on Form y-	330.)
CHANGE ZONES		
ABANDON*   (other) Operator Name Change		
(other) Operator Name Change		
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dismeasured and true vertical depths for all markers and zones pertinent	e all pertinent details, and irectionally drilled, give sub t to this work.)*	give pertinent dates, surface locations and
TEST THE CONTRACT OF THE CONTR		
Effective September 1, 1981, the exploration a		
Texas Oil & Gas Corp. have been reorga ized in TXO Production Corp. As a consequence, the op-	•	_
TXO Production Corp. As a consequence, the op- is changed to "TXO Production Corp.", as indic	erator name in Tra	n. 2 .
committee of the first control of the first cont		of the little
٠.	- ,	installa
	X 53.	15 1981
·		1931
		·
Submindence Codeb, Malico 18		_
Subsurface Safety Valve: Manu. and Type	Set	@ Ft.
18. I hereby certify that the foregoing is true and correct		
SIGNED MALLER, Curvee TITLE Environmental	Admoses Sed	21, 1981
Charles K. Curlee		
(This space for Federal or State offi	ce use)	
APPROVED BY MILE MILES ACTING DISTRICT SUI	PERVISORTE // J	4/4/
CONDITIONS OF APPROVAL, IF ANY:		•
/		B/L ( T) 0.0 0 4 =

MAR02-0458

Form Approved.

Form No. 2

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

#### (SUBMIT IN QUADRUPLICATE)

TO

## BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA BILLINGS OR SHELBY

MAC 36-3.16(10)-S18020 MAC 36-3.16(10)-S18030 MAC 36-3.16(10)-S18140 MAC 36-3.18(10)-S18170 MAC 36-3.18(10)-S18200 MAC 36-3.18(10)-S18310 MAC 36-3.18(10)-S18330 MAC 36-3.18(14)-S18380

### SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing	Supplementary Well History	
Notice of Intention to Abandon Well	Report of Fracturing	
	Change of Operator Name	XΧ

Following is a a notice of intention to do work on land a owned leased described as follows:

LEASE Buckles

MONTANA ROOSEVELT E. POPLAT

(State)

Well No. A-1

22

T28N

(Range)

(Meridian)

The well is located 1980

It. from X line and 1980

It. from X line and 1980

The elevation of the ground or XXX above the sea level is

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective saids; show also, weights, and lengths of proposed cusings, fementing points, and all other important proposed work, particularly all details of Shouting, Acidising, Fracturing.)

### DETAILS OF WORK RESULT

Effective September 1, 1981, the exploration and production activities of Texas Oil & Gas Corp. have been reorganized into a new corporate branch, TXO Production Corp. As a consequence, the operator name for this well is changed to "TXO Production Corp.".

MAR02-0459

Approved subject to conditions on re	verse of form	Company TXO Production Corp
NOV 1 3 1981	***************************************	By Leo A. Heath Tes a Weath
ORIGINAL SIGNED BY:  ByDee.Rickman, Executive Secretal District Office Agent	Title	Title Project Engineer 2705 Montana Avenue, Suite 300
		AddressBillings, MT 59101
BOARD USE ONLY API WELL NUMBER	NOTE:Reports on this	.  S form to be submitted to the appropriate District for approval

NOTE:—Reports on this form to be submitted to the appropriate District for approval DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL, UPON WRITTEN REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

From No. 2

NOTICE
THIS FORM BECOMES A
PERMIT WHEN BTAMPED
APPROVED BY AN AGENT
OF THE DOARD.

(SUBMIT IN QUADRUPLICATE)

ARM 36.22.307 ARM 36.22.601 ARM 36.22.1003 ARM 36.22.1004

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA JUN 1

ATION AND 36.22.602

ATION AND 36.22.603

JUN 1094 AND 0.22.005

ARM 36.22.1013 ARM 36.22.1301 ARM 36.22.1306 ARM 36.22.1309

SUNDRY NOTICES AND REPORT OF WELL MONT.

Subsequent Margary Maure Sangari
Subsequent Report of Spooting Acidising, Comenting
Subsequent Report of Altering Casing
Subsequent Report of Redrilling or Repair
Subsequent Report of Abandonment
Supplementary Well History
Report of Fracturing

May 21 Following is a anotice of intention to do work on land a seried described as follows: LEASE Buckles MONTANA ROOSEVELT East Poplar (State) (County) Well No. "A" #1 CSE NN 22 T28N R51E LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM. READ CAREFULLY DETAILS OF PLAN OF WORK READ CAREFULLY (State names of and expected depths to objective sauds; show size, weights, and lengths of proposed exsings, cementing points, and all other important proposed work, particularly all details of Shooting, Aciditius, Fracturing.) DETAILS OF WORK RESULT Due to uneconomic production, TXO Production Corp. proposes to P&A the above well. During plugging operations, the existing perforations will be squeezed and the following plugs will be set: Set 35 sxs cmt plug above perfs.
Set cmt plug 50' in & 50' out of prod csg stub.
Set cmt plug 50' in & 50' out of surf csg shoe.
Set cmt plug 25' above & 25' below Judith River.
Set 15 sxs cmt plug @ surface.
Verbal approval was given by Claire Haughey at the Montana Board of Oil & Gas Conservation in Billings on 5-21-84 Approved subject to conditions on reverse of form AKO Production Corp. Date .....JUN-1.8.1984. District Office Agent AddressDenver.,...CO.....80264

OVER

BOARD USE ONLY
API WELL NUMBER

STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval
DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL, UPON WRITTEN
REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

MAR02-0460

disturbed s abandonment	urface are	ea for this Parelease.	SA'd well.	orp. has completed The well site	is ready fo	June 8	
disturbed s	urface are	ea for this Parelease.	SA'd well.	The well site		1988 1988 1988 1988 1988 1988 1988	
disturbed s abandonment	urface are	ea for this P& release.	SA'd well.	The well site		1988 1988 1988 1988 1988 1988 1988	
disturbed s	urface are	ea for this P& release.	SA'd well.	The well site			
disturbed s	urface are	ea for this P& release.	SA'd well.	The well site			
disturbed s	urface are	ea for this Pa					
disturbed s	urface are	ea for this Pa				or final	
						m final	
This is to		u that TXO Pro	duction C		-d		the .
proposed work. It nent to this work.)	f <del>wel</del> l is direction	ERATIONS (Clearly state coally drilled give sub	all pertinent de surface locations	talls, and give pertinent do and measured and true ve	ates, including esti rtical depths for :	imated date all markers	of starting and somes
repair will (Other)		CHANGE PLANS		(Other) FILE ADD (NOTE: Report rec Completion or Rec	alts of multiple o	ompletion of	n Well
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING (Other) Final Aba		SANDONNENT Stice (F	
TEST WATER SHUT-C	<u>                                     </u>	PCLL OR ALTER CASING MULTIPLE COMPLETE		WATER BEGT-OFF FRACTORE TREATMENT		EPAIRINO WI LTEBINO CAS	
	MOTICE OF INTEN	: סד אסנדי		808	SEQUENT EMPORT O	) <b>;</b>	
16.	Check As	opropriate Box To	Indicate Natu	re of Notice, Report, o	or Other Data	:	
2		2085 ' G			Roosev	j	MT
1980' FNL,		(SE/NW) Sect			Sectio	n 22-T2	
At surface					11. SEC., T.,	L., M., OR BL	X. AID
4. LOCATION OF WELL () See also space 17 bel	Report location c			e requirements.*	10. FIELD AN	ND POOL, OR	WILDCAT
3. ADDRESS OF OPERATO 1800 Lincoln		ldg. Denver,	CO 80264		9, WHEL NO.	1.	
TXO Producti			Attn: C	.K. Curlee		Buckles	s ''A''
WELL X WELL  2. NAME OF OPERATOR	OTHER		•		8. FARM OR	LEASE HAME	·
1					7. UNIT AGRI	EEM BHT HAM	r
(Do not use this	IDKY NOI  form for propor  www.APPLICA	ICES AND REP	PORIS ON en or plug back "for auch propo-	to a different reservoir.	Austi	in R. Bu	ckles
SUN	10011 110T					20-0256-	-5066
SUN		U OF LAND MAN	AGEMENT	•		BIG NATION A	NO.

1.77

~ ()

\*See Instructions on Reverse Side

**MAR-461** 

### P & A - MONTANA

BUCKLES "A" #1 Foosevelt Co./22-28N-51E

- 05/23/84 5870' PBTD, RU Halliburton. Pump 50 bbls produced wtr dn tbg. Had 1250# @ 5 BPM. Pump 5 bbls fresh wtr. Pump 25 sxs Cl "G" cmt w/ .2% HR-8 retarder. Flush w/ 34 bbls produced wtr. Start to stage cmt for squeeze. Dspl w/ 35.4 bbls total @ end of squeeze. Obtain squeeze w/ 1250# TP. Bled back to 500# TP. SIFN. DW: 2050. CW: 2050.
- 05/24/84  $\underline{5870'}$  PBTD, SITP 1570#, SICP 475#. Blew dn tbg & annulus. Had no indication of fluid entry. DW: 200. CW: 2250.
- 05/26/84 5870' PBTD, RU Allison Rig #14. ND wellhead. NU BOP. Sting out of pkr. Pull up 10' w/ 2-7/8" tbg. RU Halliburton. Pump 35 sxs Cl "G" cmt from 5670-5370'. TOOH w/ tbg. ND csg head. Weld 5' pup jt on 5-1/2" csg. Attempt to pull out of slips. Pull 120,000#. Wouldn't pull out. Chain csg dn to wellhead. RU Praire WL. Attempt to RIH w/ csg cutter. Hit tight spot @ 669'. POOH. RIH w/ 4-1/2" gauge ring to 1400'. POOH. RIH w/ smaller OD cutter to 1250'. Cut csg. Csg came free, broke chain, stopped 5' out of slips. RD Praire WL. TOOH & LD 1250' of 5-1/2" csg. TIH to 1300' w/ tbg. RU Halliburton. Pump 55 sxs Cl "G" cmt from 1300-1170'. TOOH & LD tbg to 950'. Pump 50 sxs from 950-800'. TOOH & LD tbg. Pump 15 sxs @ surf. RD Halliburton. ND wellhead. RD Allison & RR @ 7:30 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 19,424. CW: 21,674.

123456	$\dot{s}_{\psi_{S}}$
Dec. 1973 UNITED STATES	Form Approved. Budget Bureau No. 42-R1424
DEPARTMENT OF THE INTERIOR	% 5. LEASE 14-20-0256-5066 Ft. Peck
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
CUMPRY NOTICES AND DEPORTS ON WELLS	Austin R. Buckles 7.: Unit agreement name
SUNDRY NOTICES AND REPORTS ON WELLS	TO STANKING AGREEMENT NAME
Do not use this form for proposals to drill or to deepen or plug back to a different eservair. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME
1. oil gas	Buckles
well 14 well Other	9. WELL NO
2. NAME OF OPERATOR	"A" #1
TXO Production Corp.  3. ADDRESS OF OPERATOR	10. FIELD OR WILDCAT NAME
1800 Lincoln Center Bldg., Denver, CO 80264	East Poplar Bield : 4-3 11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY, See space 17	AREA 1122 1 1128
below.)	Sec. 22. T28N-R51E
AT SURFACE: 1980' FNL & 1980' FWL (SE NW)	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: Same	Roosevelt Montana
Same  16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE.	14. API NO. 12.25
REPORT, OR OTHER DATA	25-085-21267 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
,	15 ELEVATIONS (SHOW DF, KDB, AND WD) 2085' GL, 2097' KB
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	2003 GL, 2037 KB
TEST WATER SHUT-OFF	
SHOOT OR ACIDIZE	
REPAIR WELL	(NOTE: Report results of multiple completion or zone
PULL OR ALTER CASING	change on Form 9-330.)
CHANGE ZONES	
ABANOON*	
(other)	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statincluding estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertiner	irectionally drilled, give subsurface locations and
•	
Due to uneconomic production, TXO Production	n Corp. proposes to P&A
the above well. During plugging operations	, the existing perforations.
will be squeezed and the following plugs wi	
Set 35 sxs cmt plug above perfs	
Set cmt plug 50' in and 50' out Set cmt plug 50' in and 50' out	
Set cmt plug 25' above and 25'	helow Judith River
Set 15 sxs cmt plug @ surface.	50.000 000,000 10.700.
Verbal approval was given by Don Miller at	the BLM's Miles City
office on May 21, 1984.	
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the stregoing is true and correct	
SIGNED M. David Libuatre TITLE Drlg & Prod	Engi beer June 1, 1984
(This space for Federal or State of ADM-MINE)	
APPROVED BYTITLETITLE CONDITIONS OF APPROVAL, IF ANY:	DATE

\*See Instructions on Reverse Side

Form 9–331	12345	6780	Form An around
Dec. 1973	(A)		Form Approved. Budget Bureau No. 42-R1424
UNITED STATES	S . Mrs.	5. LEÁSE	
DEPARTMENT OF THE INTERIOR	Meau n	<b>/44-</b> 20- <b>0</b> 256-506	
GEOLOGICAL SURVEY	Men o	6. IF INDIAN, ALLO	TTEE OR TRIBE NAME
	- W.	Austin R. Buc	kles ·
SUNDRY NOTICES AND REPORTS ON	F WELLS	7. UNH AGREEME	NT NAME
(Do not use this form for proposals to drill or to deepen or plug b reservoir, Use Form 9-331-C for such proposals.)	ack to a different.	AL FARM OR LEASE	ALANAE
1. oil ra gas	<del></del>	Buckles	. IVAME
well Well other		9. WELL NO.	: •
2. NAME OF OPERATOR TXO Production Corp.		"A" #1	· · · · · · · · · · · · · · · · · · ·
	<del></del>	10. FIELD OR WILDO	
3. ADDRESS OF OPERATOR		East Poplar	
1800 Lincoln Center Bldg., Denver		11. SEC., T., R., M.,	OR BLK. AND SURVEY OR
<ol> <li>LOCATION OF WELL (REPORT LOCATION CLEARLY, below.)</li> </ol>	See space 17	Sec. 22, T28N	ก็ตั้งก็ต
AT SURFACE: 1980' FNL & 1980' FWL (S	E NW)	12. COUNTY OR PA	
AT TOP PROD. INTERVAL: Same	_ ···· •	Roosevelt	
AT TOTAL DEPTH: Same		.,	A.3 (F. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
16. CHECK APPROPRIATE BOX TO INDICATE NATUR	E OF NOTICE,	25-085-21267	<u>3 i                                 </u>
REPORT, OR OTHER DATA	•		SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT R	EPORT OF:	2085' GL, 20	097' KB
TEST WATER SHUT-OFF			
FRACTURE TREAT		••	
REPAIR WELL		(NOTE: Report results	s of multiple completion or zone
PULL OR ALTER CASING		change on Fo	
MULTIPLE COMPLETE  CHANGE ZONES	•		
ABANDON*			
(other)			
17. DESCRIBE PROPOSED OR COMPLETED OPERATIO	NS (Clearly stat	te all pertinent details	and give pertinent dates
including estimated date of starting any proposed v measured and true vertical depths for all markers an	vork. If well is d	lirectionally drilled, giv	e subsurface locations and
measured and true various deptits for an markers an	u zones pertinei	nt to this work.j-	
The well was plugged on 5-25-84.	The well	history of the	`nluoging
operations is attached. The following			
plugs:	J	•	
·			***
1. 25 sxs cmt through	gh perts (5	1/96' - 5800').	
2. 35 sxs cmt 5670' 3. 55 sxs cmt 1300'	- 5370 . - 1170' (5	in' below 5½" co	sg stub @ 1250 <sup>†</sup> &
50' above 8-5/8	" csa shoe	@ 1220').	19 3000 6 1230 a
4. 50 sxs cmt 950'	- 800' (25'	above & 25' be	elow Judith River)
5. 15 sxs cmt @ sur			
Casing was cutoff below surface.			•
			•
Subsurface Safety Valve: Manu. and Type			Set @ Ft
18. I hereby certify that the lovekoing is true and correct			
SIGNED Me Vand Conato TITLE D	rlg. & Pro	<u>d. Engâneer Ju</u>	ne 1. 1984
M_David_Clouatre			

MAR02-0464

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APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

### CONDITIONS OF APPROVAL:

Please be advised that final abandonment shall not be approved until the surface reclamation work required by the approved drilling permit or approved subsequent report of abandonment notice has been completed to the satisfaction of the surface management agency. Upon completion of reclamation work, the lessee or operator shall notify the Bureau of Land Management, Miles City District, Division of Minerals via Sundry Notice (form 3160-5) when the location is ready for inspection as per Operating Order # 1, Section V. Bond liability for the location shall not be terminated until approval of final abandonment by the Miles City BLM.

Form 9-331 Dec. 1973

### UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON\* (other)

Dec. 1973  UNITED STATES  DEPARTMENT OF THE INTERIOR  GEOLOGICAL SURVEY  DEPARTMENT OF THE INTERIOR  Monau	5. LEASE  VAA-20-0256-5066 Ft. Peck  6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS.  (Do not use this form for proposals to drill or to deepen or plug back to a difference or use Form 9-331-C for such proposals.)	7. UNIT AGREEMENT NAME
1. oil gas other	Buckles 9. WELL NO.
2. NAME OF OPERATOR TXO Production Corp.  3. ADDRESS OF OPERATOR	"A" #1  10. FIELD OR WILDCAT NAME East Poplar Field - 3
1800 Lincoln Center Bldg., Denver, CO 8020 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 1 below.)	11. SEC., T., R., M., OR BLK. AND SURVEY OR
AT SURFACE: 1980' FNL & 1980' FWL (SE NW) AT TOP PROD. INTERVAL: Same	12. COUNTY OR PARISH 13. STATE Roosevelt Montana
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE REPORT, OR OTHER DATA	
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	15. ELEVATIONS (SHOW DF, KDB, AND WD) 2085' GL, 2097' KB
TEST WATER SHUT-OFF	
REPAIR WELL   DILL OR ALTER CASING	(NOTE: Report results of multiple completion or zon- change on: Form 9-330.)

COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent details CONDITIONS OF APPROVAL: any proposed work. If well is di-

Please be advised that final abandonment shall not be approved until the surface reclamation work required by the approved drilling permit or approved subsequent report of abandonment notice has been completed to the satisfaction of the surface management agency. Upon completion of reclamation work, the lessee or operator shall notify the Bureau of Land Management, Miles City District, Division of Minerals via Sundry Notice (form 3160-5) when the location is ready for inspection as per Operating Order # 1, Section V. Bond liability for the location shall not be terminated until approval of final abandonment by the Miles City DENVER ENV. DEP I. BLM.

18. I hereby certify that the love being is true and correct  SIGNED	g 1984 Engineer	: June 1	1984	· .	
APPROVED BY CONDITIONS OF APPROVAL IF ANY:		צ ז אוניט			<u>-</u>

MAR02-0466

Form So. 2

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

#### (SUBMIT IN QUADRUPLICATE)

TO

ARM 36, 22,307 ARM 36,22,1003 ARM 36,22,601 ARM 36,22,1004 ARM 36,22,602 ARM 36,22,1013

ARM 36.22.1301-

### BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

ARM 36.22.604 ARM 36.22.1306 ARM 36.22.605 ARM 36.22.1309

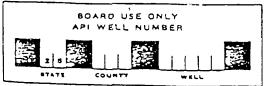
ARM 36.22.603

BILLINGS OR SHELBY

### SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Comenting
Notice of Intention to Test Water Shut-off		Subsequent Report of Attering Casing
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing		Supplementary Well History
Nouce of Intention to Abandon Well .	XXXX	Report of Fracturing

(Indicate Above by Che	eck Mark Nature of Report, Notice, or O	ther Data)	
	May 21		1984
Following is a notice of intention to do work (	on land ) owned described as	follows:	
	LEASE	Buckles	······································
MONTANA Roosevelt	(County)	East Poplar	,
Well No			•
(m. sec.)	T28N (Township)	(Range)	(Meridian)
The well is located	line and 1980 ft. from	THE Sec. 22	······································
LOCATE WELL SITE ACCURATELY ON PLAT	ON BACK OF THIS FORM.		
The elevation of the ground or K.B. above the sea	level is 20.85	······································	
READ CAREFULLY DET	AILS OF PLAN OF WORK	READ	CAREFULLY
(State names of and expected depths to objective sun important proposed work, particularly all details of Sho	ids: show size, weights, and lengths of pro- orting, Acidizing, Fracturing.)	prised cusings, cementing pot	nts, and all other
·	DETAILS OF WORK RESULT		•
Due to uneconomic product the above well. During plugging squeezed and the following plugs			be 
	olug above perfs.		·
Set cmt plug 50'	' in & 50' out of prod csg ' in & 50' out of surf csg ' above & 25' below Judith	shoe. MARO	2-0467
	en by Claire Haughey at the	e Montana Board	
Approved subject to conditions on reverse of fo	rm Company	Production Corp	
Date	By M. David C	Carato	
By District Office Agent Title	Title Drilling. 1800 Line	& Production Engi	neer ng
	Address De Wew	CO80264	
BOARD USE ONLY			



NOTE:—Reports on this form to be submitted to the appropriate District for approval
DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL, UPON WRITTEN
REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY E

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

### (SUBMIT IN QUADRUPLICATE)

TO

ARM 36.22.601 ARM 36.22.1004 ARM 36.22.602 ARM 36.22.1013 ARM 36.22.603 ARM 36.22.1301 ARM 36.22.604 ARM 36.22.1306 ARM 36.22.605 ARM 36.22.1309

ARM 36,22,1003

ARM 36.22.307

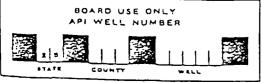
## BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

BILLINGS OR SHELBY

### SUMDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Comenting	<u> </u>
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	XXXXX
Notice of Intention to Pull or Alter Casing	Supplementary Well History	
Notice of Intention to Abandon Well	Report of Fracturing	

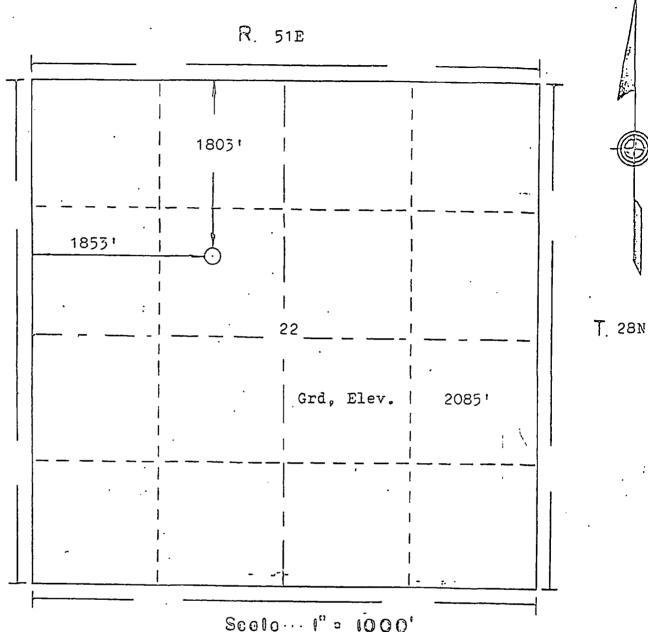
Notice of Intention to Abandon	Well .	Report of Fracturing	· · · · · · · · · · · · · · · · · · ·	
(Indica	te Above by Check Mark	Nature of Report, Notice, or O	ther Data)	
		May	29,	19.84
ollowing is a notice of intention report of work do	to do work on land	d ) owned described as LEASE	Dualiza	
MONTANA	Roosevelt		East Popl	ar
(State)	• •••••••••••••••••••••••••••••••••••••	(County)		(Field)
eli No "A" #1	22	28N	51E	
	(m, sec.)	(Township)	(Range)	(Meridian)
he well is located	VV .	•	W fline of Sec	22
OCATE WELL SITE ACCURATE	LY ON PLAT ON BAC	CK OF THIS FORM.		•
he elevation of the ground or K.B	. above the sea level is	2085.'		
EAD CAREFULLY	DETAILS O	F PLAN OF WORK		READ CAREFULLY
(State names of and experted dependence proposed work, particularly	is to objective sands; show all details of Shooting, Ac	size, weights, and lengths of pro- udizing, Peneturing.)	Maed chaines, cemer	
	•	ILS OF WORK RESULT		
		4. The well history		
operations is attached	it through perfs	is a summary of the	cement plugs	•
2. 35 sxs cm	it 5670'-5370'.	(3736 -3600 ):		
		O' below 5½" csg stui	0 1250' &	
50' above	8-5/8" csg shoe	0 1220').		.:
		above & 25' below Ju	udith River).	
	it 0 surface. off below surface	^		
Casing was Cut	OII DETOW SUFFACE	τ.		
			-	MAR02-0468
`	•	_		
pproved subject to conditions or	n reverse of form	Company 7.00	Production C	orp.
ale		By M. Dur	Mouto	
		M. David (	Clouatre	
District Office Agent	Title	1800 Linco	oln Center Bu	Enginee <u>r</u> Filding
		Address Denver.	,L08.026.4	***************************************
BOARD USE ONLY				



NOTE:—Reports on this form to be submitted to the appropriate District for approval

DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL, UPON WRITTEN
REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.





Powors Elovation of Danvor, Colorado

has in accordance with a request from Joe Kagie
for Texzs Oil & Gas,
deformined the location of Buckles S.V.D. #1
fo be 1803'fN 1855'fW Section 22 Township 28N
Range 51E of the Montana prinicipal Meridian
Roosevelt County, Montana

I horoby cortify that this plat is an accurate representation of a correct survey showing the location of Buckles S.W.D. #1

Dore: 6May81

Licensed Land Surveyor No. 21348 State of Montana

**MAR-470** 

MAR02-0470

N

## TEXAS OIL & GAS CORP. Proposed Well Buckles "A" #1

- 1) Application for Permit to Drill
- 2) Multipoint Use and Operations Plan

Roosevelt County, Montana

MAR02-0471

MAR-471

SUBMIT IN TRIPLICATE.

Form approved.

(May 1967)	UNIT	ED STATES		(0	ther instruc reverse si		Bruget Bureny	
	DEPARTMENT	OF THE IN	ITER	IOR			Contract No	Korney at York
	GEOLO	GICAL SURVE	Y					
·				N 00 I		A CV	14-20-0256-5 6. IF INDIAN, ALLOTTEE	OR TRIDE NAME
APPLICATION	FOR PERMIT	O DRILL, D	EEPE	N, UK I	LUG B	ACK		
1. TIPE OF WORK	LL 🖾	DEEPEN [	7	Di	.UG BAC	κП	Austin R. Bu 7. ONIT AGREEMENT N	CKTE2
b. Type of Well	لال لينا	DECLEIN [			.00 0/10	.,,	N/A .	
OIL CA	S OTHER		81: 20	IGLE X	MULTIPE ZONE	2.	S. FARM OR LEASE NAM	ı£ .
. NAME OF OPERATOR						,	Buckles	
Texas Oil & O	Gas Corp.						9. WELL NO.	-
. ADDRESS OF OPERATOR							<u>''A''</u> #1	
Suite 300, 21	705 Montana Ave	nue, Billin	gs, l	lontana	59102		10. FIELD AND POOL, O	R WILDCAT
. LOCATION OF WELL (Re	port location clearly and	in accordance with	any S	ate requirem	ents.*)		N/A	_
1980' FNL, 1980' FWL						11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zone	2	•						
1980' FNL, 19	980' FWL	·····					Section 22-T	28N-R51E
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAD	REST TOWN OR POST	OFFICE	•			12. COUNTY OF PARIST	13. STATE
_Annroximately	6 miles NNF o	f Poplar Mo	ntar	1a			Roosevelt	Montana
DISTANCE FROM PROPO LOCATION TO NEAREST	SED*		16. NO	OF ACRES I	N LEASE		F ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE L (Also to nearest drig	INE, FT. , upit lipe, lf any)	660'		160		·	40	•
S. DISTANCE FROM PROPO TO NEAREST WELL, DI	OSED LOCATION"		19. PR	POSED DEPTI	ī	20. ROTA	RY OR CABLE TOULS	
OR APPLIED FOR, ON TEL				6000 '		Rot	ary	· ;-
21. ELEVATIONS (Show Whe	ther DF, RT, GR, etc.)				•		22. APPROX. DATE WO	RE WILL START"
2085' GR							February 1	0, 1981
23.	Ţ	PROPOSED CASIN	G AND	CEMENTIN	G PROCRA	м		• • .
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	0т	SETTING	DEPTH		QUANTITY OF CEMEN	T
12½''	8 5/8"	24#		600		450	sxs	
7 7/8"	51/311	15.5# & 17	#	6000		700	sxs ·	

IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM: If proposal is to despen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout p :

reventer program, it any.		
SIGNED ROD BECKET	TITLE Project Manager	DATE
-(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	MAR02-0472
APPROVED BY	TITLE	DATE

# 9-331 C ADDENDUM Buckles "A" #1 Section 22-T28N-R51E · Roosevelt County, Montana

- 1. SURFACE FORMATION: Bear Paw
- 2. ESTIMATED FORMATION TOPS:

Judith River	730'	Tyler	48801
Eagle	1180'	Otter	5032'
Muddy	2978'	Kibbey Sand '	51941
Dakota	3236'	Kibbey Lime	5328'
Swift	3694'	Charles	. 54861
Rierdon	4142'	Charles A	5556'
Piper	4401'	Charles B	5674'
Amsden	47481	Charles C	5826'

3. ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:

Expected Oil and Gas Zones:

Judith River		Brackish Water
Muddy		Salt Water
Dakota	:	Salt Water
Kibbey		Salt Water
Charles		Oil

- 4. CASING PROGRAM AS PER FORM 9-331 C.
- 5. PRESSURE CONTROL EQUIPMENT:
  - A. After surface casing is set, a standard two-preventer system will be utilized.
  - B. The BOP equipment will be pressure-tested to 1,500 psi before drilling surface pipe cement, and will be tested for operation daily and during trips.
  - C. A diagram of the proposed installation. See Exhibit 1.
- 6. MUD PROGRAM:

....

.0' 2 600' Water .600' - 4000' Salt Water 4000' - TD Saturated Salt Gel

- 7. AUXILIARY EQUIPMENT:
  - A. A kelly cock will be kept in the string at all times.
  - B. A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string, as necessary.

MAR02-0473

- C. A gas-detecting device hot wire will be used from 3,000' to TD.
- D. A desander and/or desilter will be utilized as required.
- 8. CORING, LOGGING, TESTING PROGRAM:
  - A. No coring is anticipated.
  - B. Possible DST in the Charles C.
  - C. Dual laterolog-base surface casing to T.D.
  - D. FDC-CNL-GR-Cal Tyler formation to T.D.
- 9. ABNORMAL CONDITIONS:
  - A. No abnormal pressures or temperatures are expected.
  - B. No hazardous gases such as H<sub>2</sub>S are expected.
  - C. Hole sloughing and washouts may be experienced in salt sections below 4,000°. Appropriate control measures will be exercised.
- 10. ANTICIPATED STARTING DATES:

Start location construction	February 10, 1981
Spud	February 15, 1981
Complete Drilling	March 1, 1981
Completed, ready for pipeline	April 1, 1981

11. Productive zones will be perforated, tested and treated as necessary. Gas will be flared during testing. Produced water will be contained in the drilling reserve pit. The extent of treatment of a zone (acidizing and/or fracing) can only be determined after the zone has been tested. A completion-program will be furnished after drilling and logging.

### TEXAS OIL & GAS CORP. MULTIPOINT SURFACE USE AND OPERATIONS PLAN

DATE: January 15, 1981

WELL NAME: Buckles "A" #1

LOCATION: 1980' FNL, 1980' FWL, Section 22-T28N-R51E, Roosevelt Co., Montana

### I. EXISTING ROADS

A. Proposed well site as staked. Refer to Exhibit 2. The well has been staked 1980' FNL and 1980' FWL of Section 22-T28N-R51E.

- B. Route and distance from nearest town or locatable reference point to where proposed access route leaves main road: From Poplar, east on Highway 2 approximately 4.5 miles to Flaxville blacktop road. Turn north, proceed 4.5 miles to section road. Turn west, proceed 2.0 miles to section road. Turn north for 0.5 mile to drill site access road. The proposed drill site access road proceeds east for 0.38 mile, then 0.13 mile north.
- C. Access route to location color coded in red and labeled. Refer to Map 2.
- D. For development well, all existing roads within one mile color coded in yellow. Refer to Map 1.
- E. Plans for improvement and maintenance of existing roads: The roads leading to the access road are well traveled. The road from Highway 2 is a blacktop county road. The section roads are graded, gravelled and well traveled. Only the access road will require any maintenance. During wet periods, some maintenance may be required to allow travel by drilling rigs and well service vehicles. During dry periods, wetting the access road may be required for dust suppression.

### 2. PLANNED ACCESS ROAD

Show all necessary roads to be constructed or reconstructed: An access road approximately 0.5 mile long will be constructed from the west section line of Section 22-T28N-R51E. The road will follow the center line of the Section east to the SE/4, NW/4 section line then north to the drill site. The road will be 18-20 feet wide, with minimal grade. No drainages will be crossed. If the well is commercially productive, the road will be bar-ditched and crowned to facilitate drainage.

### 3. LOCATION OF EXISTING WELLS

Map 3 is a one-mile radius locating and identifying the following:

- A. Water Wells None
- B. Abandoned Wells None

C. Temporarily Abandoned Wells - None

MAR02-0475

- D. Disposal Wells None
- E. Drilling Wells None
- F. Producing Wells Mesa 1-22 Biere, Sec. 22-T28N-R51E

Juniper #1-21 Poplar, Sec. 21-T28N-R51E Murphy Oil Unit #22, Sec. 14-T28N-R51E Murphy Oil Unit #55, Sec. 23-T28N-R51E

- G. Shut-In Wells None
- H. Injection Wells Mesa, Sec. 22-T28N-R51E
- I. Monitoring or Observation Wells for Other Reasons None

### . LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Map 3 is a one-mile radius locating the following existing facilities owned by the lessee/operator:
  - 1. Tank Batteries None
  - 2. Production Facilities None
  - 3. Oil Gathering Lines None
  - 4. Gas Gathering Lines None
  - 5. Injection Lines None
  - 6. Disposal Lines NOne
- B. If new facilities are contemplated, in the event of production show:
  - Proposed location and attendant lines by flagging them off the well pad. Refer to Exhibit 3.
    - 2. Dimensions of facilities. Refer to Exhibit 3.
    - 3. Construction methods and materials: Water production will be contained in a bar production pit according to NTL-2B specifications. A production unit will be set. All connection work will be done by an oilfield service company using standard oilfield materials.
    - 4. Protective devices and measures to protect livestock and wildlife: The burn pit will be fenced with small mesh wire and flagged to protect animals. The reserve pit will be fenced to protect animals until it can be properly restored. The reserve pit will be fenced on three sides while drilling and on the fourth side after the rig moves off location.

### 5. LOCATION AND TYPE OF WATER SUPPLY

- A. Location and type of water supply: Water for drilling purposes will be purchased and hauled from a commercial water hauler. If additional state or federal permits are required, they will obtained from the appropriate Montana State authority, or the BLM Resource Area Headquarters.
- B. Method of transporting water: Water will be transported via truck over the access road described above. No new roads will be required.
- C. If water well is to be drilled, so state: No water well is contemplated.

### 6. SOURCES OF CONSTRUCTION MATERIALS

- A. Show information either on map or by written description: It is not anticipated that any materials for construction will be required beyond materials from the minimal cut on the location.
- B. Identify it from Federal or Indian Land: The surface is owned by Austin R. Buckles.
- C. Describe where materials such as sand, gravel, stone and soil material are to be obtained and used: None to be transported.
- D. Show any needed access roads crossing Federal or Indian lands. Refer to Map 1.

### 7. METHODS OF HANDLING WASTE DISPOSAL

- A. Cuttings will be separated by screen and gravity and contained in the reserve pit and subsequently covered when the pit is filled.
- B. Drilling fluids to be contained in the reserve pit and allowed to evaporate prior of to filling.
- C. Produced fluids will be contained in the reserve pit and allowed to evaporate prior to filling.
- D. Sewage Portable toilet will be provided.
- E. Garbage will be placed in a trash pit, fenced and covered with small mesh wire for burning and burial after completion of the well.
- F. Statement regarding proper cleanup when rig moves out. When the rig moves out, all trash and surface refuse will be disposed of by burial in the trash pit or by removal from the location. All pits will be filled after drying and all areas restored as under Item #10.

### 8. ANCILLARY FACILITIES

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods: None planned.

### 9. WELL SITE LAYOUT ATTACHMENT AND PROPOSED RIG LAYOUT

- A. Cross-section and plan view of drill pad with cuts and fills: Refer to Exhibits 4 and 5.
- B. Location of mud tank, reserve pit, burn pit, trash pit, pipe racks and living facilities: Refer to Exhibit 6.

MAR02-0477

- C. Rig orientation, parking area: Refer to Exhibit 6.
- D. Statement regarding pit lining: The reserve pit will be unlined for all drilling operations.

### 10. PLANS FOR RESTORATION OR SURFACE

- A. Backfilling, levelling, contouring and waste disposal: The reserve pit will be fenced until it can be cleaned up, then will be levelled to the original contour. The mouse and rat holes will be filled. As per Item #7, trash will be burned and buried.
- B. Revegetation and rehabilitation: Upon backfilling of the reserve and mud pits, the disturbed area will be recontoured prior to seeding; previously stockpiled topsoil will be redistributed evenly.
- C. Prior to rig release, pits will be fenced and so maintained until cleanup can be properly done.
- D. If any oil is on the pit, it will be removed or overhead flagging will be installed.
- E. Timetable for comment and completion of rehabilitation operations: Depending upon weather for rapid seed germination and standing crop, restoration should be final one year after spud date.

### 11. OTHER INFORMATION

### General description of:

- A. Topography, soil characteristics, geologic features, flora, fauna: The proposed well site is located in a flat wheat field. The land slopes slightly to the west from the drill site, toward the Poplar River. The land is currently being cultivated. The nearest water source is the Poplar River, approximately 2 miles west. In addition, there are numerous intermittent (drainage) streams that follow a low ridge 0.5 mile to the east. The ridge runs north-south and has an elevation of about 80-120 feet above the elevation of the well pad. Dominant fauna includes rabbits, small mammals, small and raptorial birds, and rodents.
- B. Other surface-use activities: The surface is privately-owned by Austin R. Buckles; it is currently being farmed by the Buckles family. Texas Oil & Gas Corp. will execute a surface damage agreement with Mr. Buckles after the amount of surface disturbance is determined. This determination will not take place until the joint on-site inspection.
- C. Proximity of water, occupied dwellings, archeological, historical or cultural sites: The Poplar River is located approximately 2.0 miles west of the drill site; in addition, there are a number of intermittent streams east of the drill site. There is a ranch house located approximately 0.6 mile south-southwest of the drill site. The Bureau of Indian Affairs has conducted an environmental survey of the area and has determined that since the drill site is located in an active agricultural area, that any archeological, historical, or cultural values would have been destroyed or disturbed. Therefore, an archeological survey will not be required.

### 12. LESSEE'S OR OPERATOR'S REPRESENTATIVES

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

Ronald Becker Leo Heath - 406/656-9917 - Residence Texas Oil & Gas Corp. 2705 Montana Ave., Suite 300 Billings, Montana 59101 406/248-4330 - Business

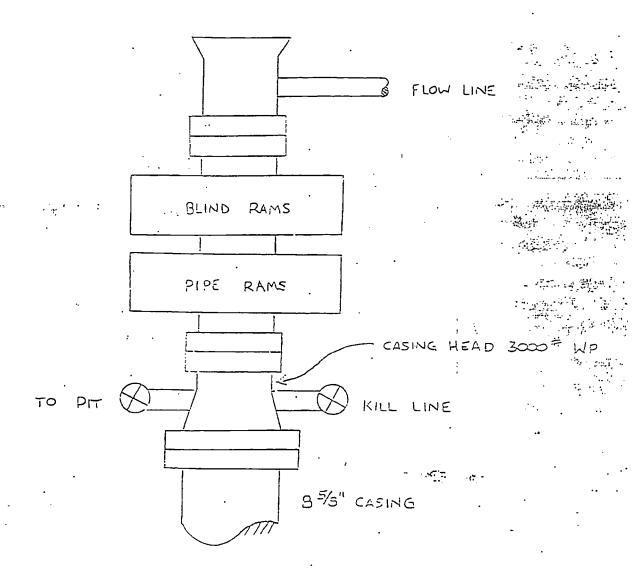
### 13. CERTIFICATES

The following statement is to be included in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

I hereby certify that I, or persons under by direct supervision have inspected the proposed drill site and access roads; that I am familiar with the conditions which presently exist; and that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Texas Oil & Gas Corp. and its contractors, subcontractors in conformity with this plan and the terms and conditions under which it is approved.

DATE: 1-11-81

Ronald Becker Project Manager

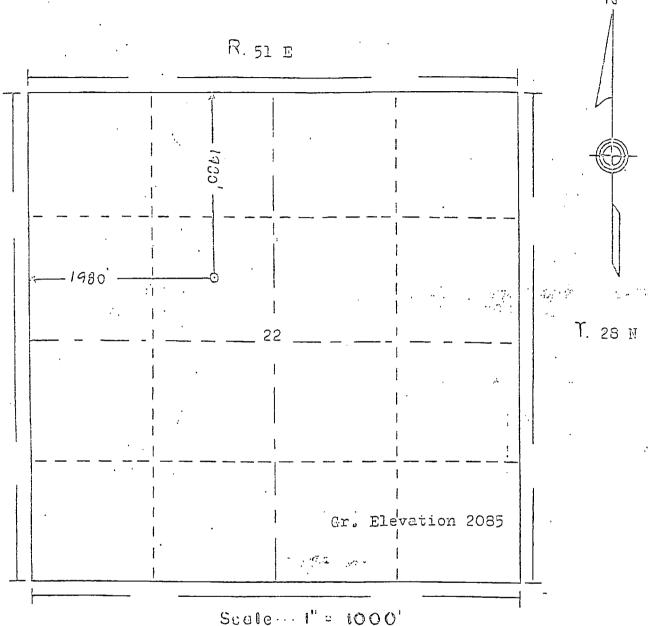


BLOWOUT PREVENTER SCHEMATIC

MAR02-0480

**MAR-480** 

P FORM FILE



Powers Elovation of Denvar, Colorado

has in accordance with a request from Charlie Curlee
for Texas Gil & Cas Corp. 
determined the location of Buckles A #1

to be 1980fnl, 1980fvl Section 22 Township 28 N

Range 51 E of the Montana Principle Meridian

Roosevelt County, Montana

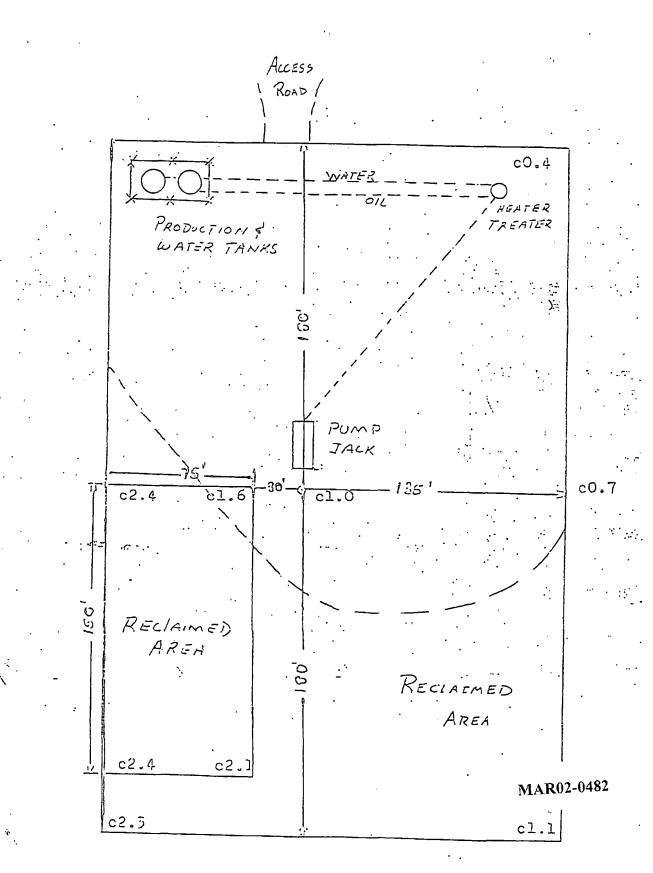
I horoby certify that this plat is an accurate representation of a correct survey showing the location of . Buckles A #1

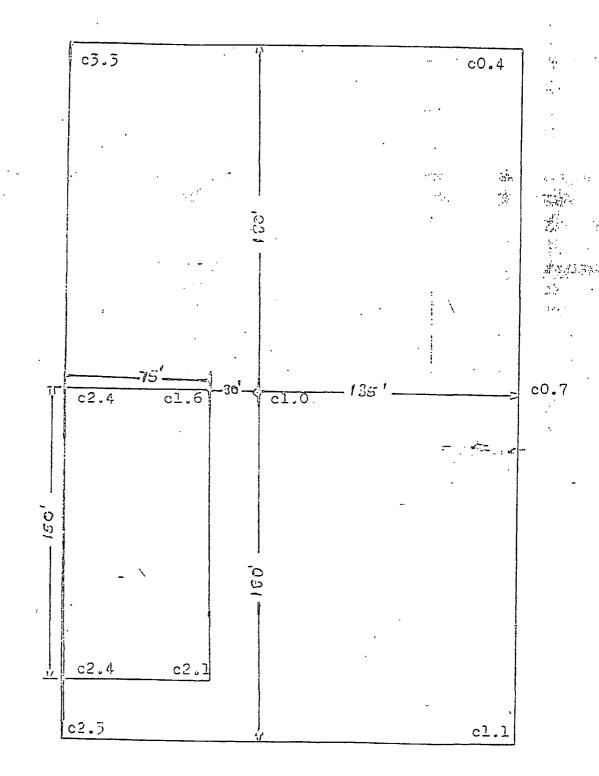
MAR02-0481

Date: 1-7-81

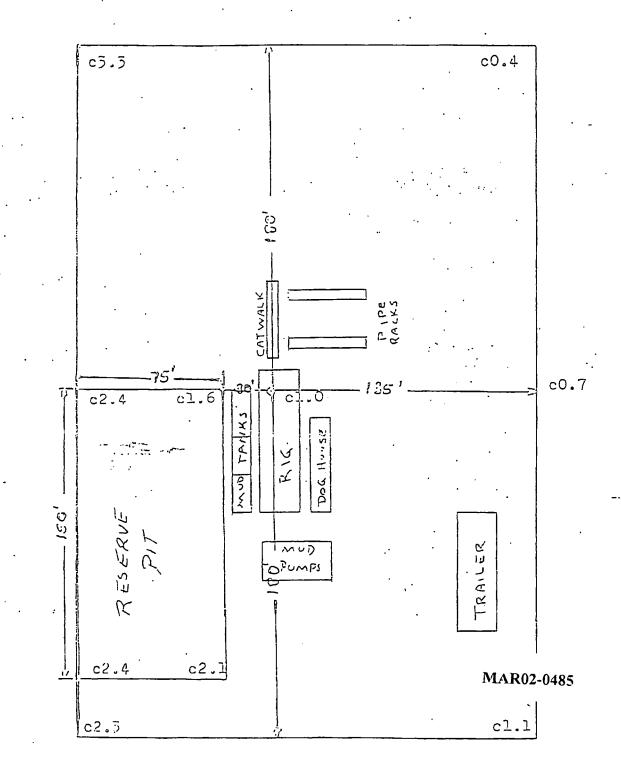
Licensed Lund Surveyor No. 2134 MAR-481 Store of Montana Texas Oil & Cas Corp. Ruckles A #1

Production Facilities

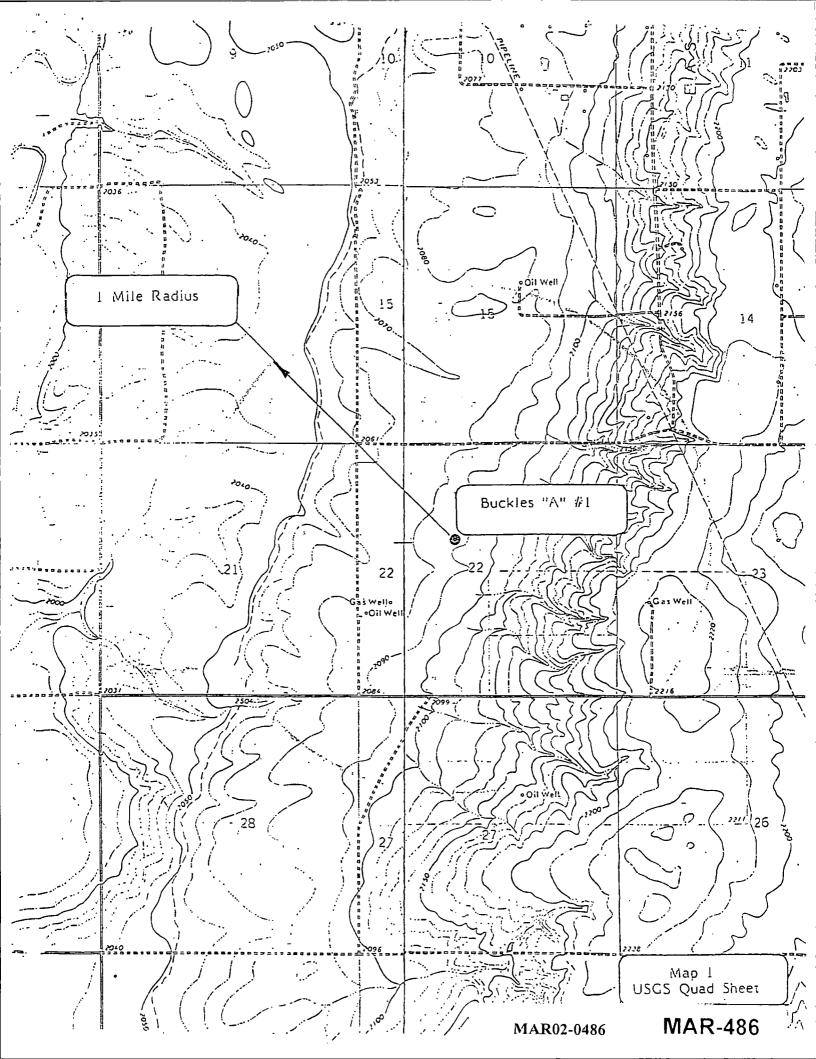




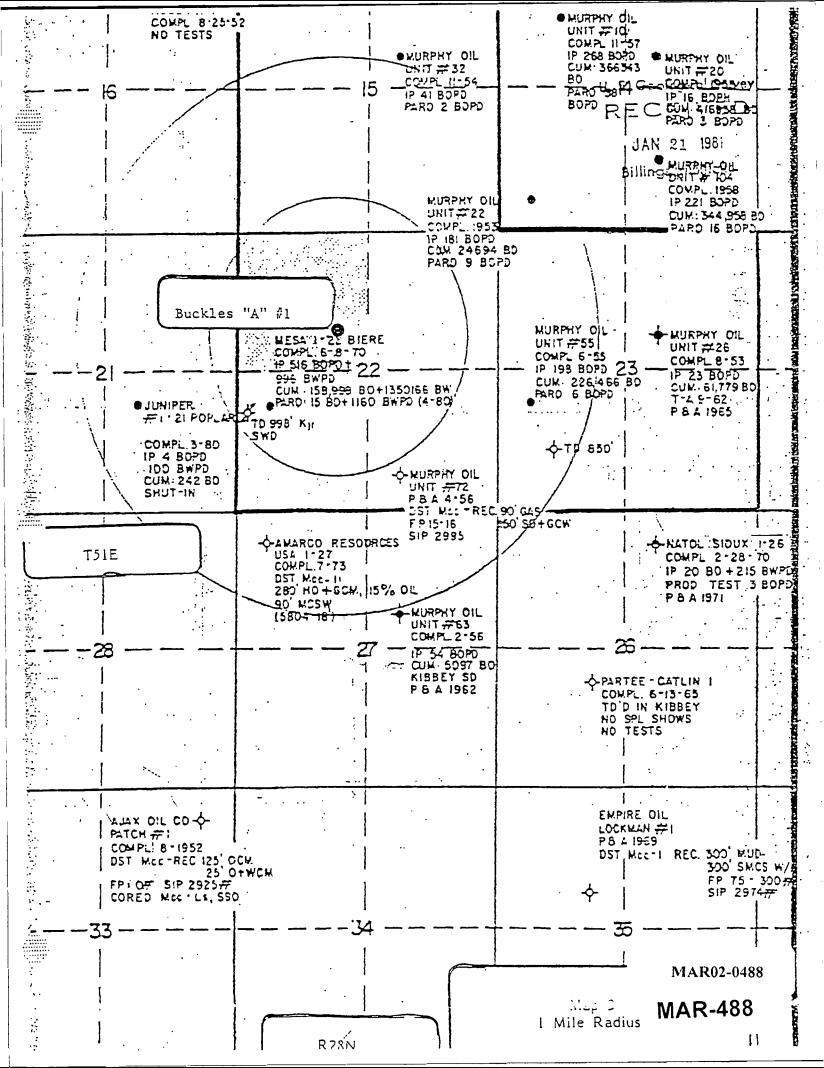
	Texas Oil & Cas Corp. Buckles A #1
2087.5	Exhibit 5
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1	155' 2064.4
Grade 2084	0+00
· · · · · · · · · · · · · · · · · · ·	Dirt Quanities & Cross Sections: Top soil l' 3200cu yds
	Cut dirt 5240cu yds
	Reserve Pit dirt 3333cu yds Scale:
105' N	Horizontal l"=50' Verticle l"=2'
2086.4	
Grade 2084	1+80
· ·	
1051	
	1758
· <b>i</b>	155' 2085.1
Conde 2084	3+60 :
<b>*</b> .	MAR02-0484
	MAR-484
	· · · · · · · · · · · · · · · · · · ·



**MAR-485** 







### RECOMMENDED DRILLING FLUID PROGRAM

PREPARED FOR

MR. LEO HEATH

TEXAS OIL AND GAS

2705 MONTANA AVENUE, SUITE 300

BILLINGS, MONTANA 59101

6,000' MADISON TEST BUCKLES A-NO. 1 SECTION 22, T28N, R51E ROOSEVELT COUNTY, MONTANA

> PREPARED BY ROBERT ELLIS TECHNICAL MANAGER DENVER, COLORADO

JANUARY 15, 1981

CO. Div. of PETRO CHEM, INC.

**MAR02-0489** 

**MAR-489** 



CO. Div of PETRO CHEM INC

#### CASING AND HOLE SIZE

DEPTH INTERVAL

0' - 600'

600' - 6,000'+ TD

HOLE SIZE

12-1/4"

7-7/8"

CASING SIZE

8-5/8"

5-1/2

MAR02-0490



CO. Div of PETRO CHEM, INC

#### ESTIMATED FORMATION TOPS

Judith River	730'
Eagle	1,180'
Muddy	2,978'
Dakota	3,236'
Swift	3,694'
Rierdon	4,142'
Piper	4,401'
Amsden	4,748'
Tyler	4,880'
Otter	5,032'
Kibbey	5,194'
Kibbey Lime	5,328'
Charles	5,486'
Charles "A"	5,556'
Charles "B" _	5,674'
Charles "C"	5,826'
Total Depth	6,000'



#### DEPTH INTERVAL

0 - 600'

FLUID TYPE: Water & Gel-Lime

Spud with water. Salt water may be used if readily available. Add American Gel (Salt Water Clay, if salt water is used) flocculated with Lime as needed for a light mud up to insure the safe running of casing. Well-site observations should determine amount of mud up necessary to safely land surface casing. A short or round trip may be beneficial at surface casing depth.

Loss of partial or whole returns may occur due to coal seams or gravel beds. A supply of Cottonseed Hulls, Pro-Fiber, Mica, and Cedar Seal should be on location.

Estimated Drilling Time: 2 Days

Estimated Interval Mud Cost: \$500.00

MAR02-0492

1. 1.

CO. Div of PETRO CHEM, INC.

#### GENERAL

Salt Water Muds

#### Advantages of Salt Fluids:

- 1. May be used as a clear water, solids free fluid with weights to 9.9 ppg.
- 2. Are inhibitive fluids to prevent shale swelling.
- 3. Prevent hole enlargement when drilling salt sections.
- 4. Are usually immune to excessive viscosities caused by bentonitic sections.
- 5. Are not affected by common contaminants.

#### Maintenance:

Salt Water Clay (attapulgite) is the most stable viscosifier in a salt water system. The maximum yield from this material is gained from shear. The amount of agitation available in the mud pits will affect the amount of material required for building viscosity.

Conventional fluid loss reducing agents are not effective in these highly saline and high calcium waters. Starch is the best material to control fluid loss. Large additions will impart some viscosity. "Petro Cide 35" or "Preservative" should be used to prevent bacterial fermentation of the starch. These biocides should not be required when the fluid becomes salt saturated.

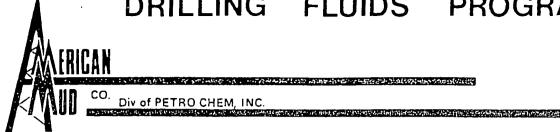
Control of pH in these fluids is not practical since they contain ā high amount of calcium and magnesium. The optimum pH range is 6.5 - 7.5.

The solids content should be controlled by dilution and mechanical solids control equipment. Excess mud weights and high gels will result if solids are not controlled.

Salt water muds have a greater tendency to foam than fresh water muds. Defoamers are usually adequate to deal with this problem.

Since corrosion rates are usually high, PC-23 (sodium chromate) or Petromine (filming amine) should be used.

original original of



#### DEPTH INTERVAL

600' - 3,200'

FLUID TYPE: Salt Water

Drill out of surface casing with water and discard the contaminated fluid. Use field salt water blended with fresh water to maintain the salinity at 175,000 ppm. This salinity is necessary to stabilize the bentonitic shale sections in this interval. Other potential hole problems caused by these shales may be eliminated by adding a 50 to 60 sack treatment of American Gilsonite over a 2 day period while drilling. For maximum dispersion of the Gilsonite, 5 gallons of HME should be added per 10 sacks of material.

Salt Water Clay sweeps should be used as needed to clean the hole and eliminate tight connections or fill on trips. The yield produced from this clay is dependent upon agitation in the pits and the shear obtained in the circulating system.

Defoamers should be available if foaming occurs.

Begin a good solids control program in this interval to reduce overall mud costs. Desanders and desilters should be run continuously (except when adding Gilsonite) throughout the entire hole. The steel mud pits should be cleaned as needed to prevent the recirculation of drill solids. To aid in the settling of drill solids, Desilta, a selective flocculant, should be used as recommended by the mud engineer. The reserve pit may be utilized to allow more settling time. An adequate water supply should be available to control solids build-up.

Frequent surveys are recommended to avoid crooked hole.

Estimated Drilling Time:

Estimated Interval Mud Cost: \$1,500.00



CO. Div of PETRO CHEM, INC.

#### DEPTH INTERVAL

3,200' - 5,300'

FLUID TYPE: Salt Mud

To drill the Dakota, mud up is required and the salinity should be increased as recommended. The mud pits should be cleaned prior to mudding up for this interval. Build viscosity by shearing the Salt Water Clay and lower the filtrate with starch and preservative. American Gel (bentonite) will not yield viscosity in the high saline water, but its use is irreplaceable for particle size distribution for building a tough wall cake. If the sensitive shales have not yet stabilized (indicated by fill on trips, tight hole, and large shale pieces at the shaker) another 50 to 60 sack treatment of Gilsonite should be added. If tight hole becomes a problem and lubricity is required, Petro EP (extreme pressure) Lube is effective in reducing torque and drag.

Salt sections may be drilled in this interval which tend to wash out large sections of the hole and cause severe problems. If a salt sections is encountered with a thickness of 15 foot or more, the salinty of the fluid should be increased to 300,000 ppm.

Due to water disposal in the surrounding area, a high pressure water flow may be encountered in this interval. If this situation occurs, the salinity should be increased to saturation for increased mud weight. Barite should be used only if a weight above 10.3 is used. If barite is used here, then mud weights may become too high when salinity is increased in the next interval.

If D.S.T.'s or possible producing zones are anticipated in this interval, the filtrate should be lowered to 12 cc's or less before penetrating the zone.

Attention should be given to the annular flow patterns to assure laminar flow. Laminar flow in the annulus assures proper hole cleaning and prevents hole erosion and wash out. The pump rate and yield point can be adjusted to meet this requirement.

Continue the rigid solids control practices for maintaining a low solids system for rapid penetration and to reduce overall mud costs.

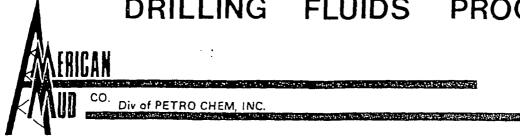
Foaming may occur which should be easily handled using defoamers.

MAR02-0495

Estimated Drilling Time: 6 Days

**MAR-495** 

Estimated Interval Mud Cost: \$6,000.00



#### DEPTH INTERVAL

5,300' - 6,000'

FLUID TYPE: Saturated Salt Water

Continue using the same products and mud maintenance practices as described previously to obtain the fluid properties recommended.

The salinity must be increased and the filtrate lowered to prevent damage to potential producing zones. This system should provide for trouble-free drilling and safe evaluation of producing zones. Drilling with higher filtrates is acceptable; however, 24 hours prior to logging, DST's or penetrating pay zones the filtrate should be lowered to 12 cc's or less.

Arbitrarily raising the viscosities for logging and DST's should be avoided unless hole conditions dictate otherwise.

Loss of circulation may be encountered in this interval due to the permeable and fractured formations. Various lost circulation materials such as Mica, Nut Shells and Cottonseed Hulls should be available if this occurs.

Use minimum viscosities to clean the hole. High viscosities induce higher ECD's (equivalent circulating densities) and increase the probability of loss of circulation. The increase in mud density due to circulating (ECD) can be computed by:

Again, the solids control practices are most important for reducing costs and avoiding problems.

Thinners should not be used unless high rheological properties become a problem.

Preservatives are not necessary when salt content reaches 275,000 ppm.

Estimated Drilling Time: 4 Days

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Estimated Interval Mud Cost: \$6,000.00



# RECOMMENDED DRILLING FLUID PROPERTIES

DEPTH INTERVAL	MUD WEIGHT	FUNNEL VISCOSITY	SALINITY FILTRATE
0' - 600'	8.7-9.0	30 - 36	Optional N/C
600' - 3,200'	· '9.4-9.6	30 - 35	175,000 N/C
3,200' - 5,300'	9.7-10.0	32 - 36	250,000 12 - 17
5,300' - 6,000'	10.0-10.4	35 - 40	300,000 12 or less



MERICA MUD :

CO. Div of PETRO CHEM, INC.

#### COST SUMMARY

DEPTH INTERVAL	DAYS	COST
0' - 600'	2 .	\$ 500.00
600' - 3,200'	. 3	1,500.00
3,200' - 5,300'	6	6,000.00
5,300' - 6,000' TD	4	6,000.00
•	15	\$14,000.00

MERI	CAN
L VA III	CO.
A-I ABAA	1 - 20 2

CO. Div of PETRO CHEM, INC.

#### LOCAL AMERICAN MUD PERSONNEL

Keith Bailey	Sales Engineer	Watford City, ND	(701) 572-8000
Jim Williams	Sales Engineer	Williston, ND	(701) 572-8000
Tom Roland	Sales Engineer	Minot, ND	(701) 572-8000
Steve Sinness	Sales Engineer	Williston, ND	(701) 572-8000
Randy Vaughan	Sales Engineer	Williston, ND	(701) 572-8000
George Goetsch	Sales Engineer	Dickinson, ND	(701) 572-8000
Kyle McClurg	Sales Engineer	Great Falls, MT	(701) 572-8000
Tom Tibor	Sales Engineer	Sidney, Montana	(406) 482-3850
John Little	Sales Engineer	Dickinson, ND	(701) 225-6863
Jim Calkins	Sales Engineer	Watford City, ND	(701) 842-2503
Kevin Satermo	Asst. Area Manager	Williston, ND	(701) 572-8000
Steve Goodall	Area Manager	Williston, ND	(701) 572-8000
Richard Miller	Technical Advisor	Denver, Colorado	(303) 893-0729
Robert Ellis	Technical Manager	Denver, Colorado	(303) 893-0729
Edwina Treybig	Division Sales Rep.	Denver, Colorado	(303) 893-0729
Mike Cagle	Division Sales Rep.	Denver, Colorado	(303) 893-0729
Bill Beck _	Asst. Sales Manager	Denver, Colorado	(303) 893-0729
Michael Cowan	Rocky Mtn. Sales Mgr.	Denver, Colorado	(303) 893-0729
Fred Williamson	Manager	Denver, Colorado	(303) 893-0729
Bob Hill	General Manager	Denver, Colorado	(303) 893-0729

STOCKPOINT

MAR02-0499

Williston, North Dakota

(701) 572-2427

iloi	Location 21-28N-5 E  ilotted #3047 #1-21 County Roosevelt  Century #1 State Montana  John Little Elevation					AMERICAN MUD COMPANY  DRILLING MUD LOG								. Hole Size 77/8 inch Under Surf Intermediate Casing inch 11. Total Depth						3-16-80  or Surface Date 3-17-80  h Date 3-30-80  I Depth 5916  \$										
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#### MONTANA

#### SPILL REPORT FORM

T.	Reported by:										
	1. Name TXO Production Corp. Phone No. 406-248-4330 2. Address 2705 Montana Avenue Suite 300 3. Date and time first noted 7:00 p.m. 1-16-82 4. Other information 5. Date and time of report 9:00 a.m. 1-17-82										
ii.	Location:										
	<ol> <li>Stream or watercourse 3 miles west to Poplar River</li> <li>Town Poplar, 6 mi. SW County Roosevelt</li> <li>Landmark</li> <li>Legal description (Township, Range, Section, Tract)         Buckles "A" #1, NE NW Sec. 22, T28N, R51E     </li> </ol>										
III.	Pollutant:										
	<ol> <li>Pollutant material crude oil Amount est. 90 bbls</li> <li>Area or miles affected inside tank battery dike</li> <li>Describe effects (color, slick, dead or dying fish, etc.)         None     </li> </ol>										
IV.	Responsibility:  1. Person or entity: Name Leo A. Heath, Drilling & Production Manager,  2. Address TXO Production Corp. 2705 Montana Avenue Suite 300 Billings, Manager,  3. Phone No. 406-248-4330										
v.	Describe cleanup procedures used:										
	Suctioned into vacuum truck and returned to tank battery.										
VI.	Cause:										
	Frozen water line resulted in dumping of produced water to oil stock										
	tanks, and oil overflowing tanks.										
vII.	Persons notified:										
	Tom Richmond, Montana Oil & Gas Conservation Commission, Billings, Montana  Jim Mitchell, USGS, Billings, Montana										

### TEXAS OIL & GAS CORP.

### OIL SPILL REPORT RECORD

ntra-company Data:				
State Montana				
Report Called in	By Leo A. Heath	·	e 9:15 a.m. on 1-17	-82
Spill Discovered	By Tom Leinen (c	contract pumper)	e 7:00 p.m. on 1-16	-82
Estimated Time of	Spill 5:00 p.m	n. to 7:00 p.m.	1-16-82	
How Did Spill Occ		_	ox leak, broken flow il stock tanks.	line, etc.)
Can Material Get Name of Waterway	· ·	No Did S	pill Get in Waterway?	No
otification Data:				
Geographic Locati	on of Spill NE N	W Sec. 22-T28N-	R51E .MPM	<del></del>
Amount of Spill_9	90 bbls oil	Basis es	timated	
Amount Recovered_	85 bb1s oil	How Recovered	d vacuum truck	
Nature of Spill (	Substance) cruc	de oil		
Distance to Water	way. (Name of tri	ibutary and its f	low designation)	
3 miles west to			· · · · · · · · · · · · · · · · · · ·	
Status of Contain	ment (Give detai	ils of containme	nt and cleanup proced	ure used.)
Completely conta			• •	· · ·
				<del></del>
			<u>.</u>	
	<u>4</u>	NOTIFICATION LIS	<u>T</u>	
Name of agency(Abbrev)	Location of Agency	Person Notifying	Time and Date of Notification	Person Contacted
USGS	Billings, MT	L.A. Heath	9:15 a.m.: 1-17-82	Jim Mitchel
MT O&GCC	Billings, MT	L.A. Heath	9:00 a.m. 1-17-82	Tom Richmon
Date 1-18-82	· ·	Report Prepare	d by Leo A. Heath	MA

		Page 5b of 33								
ess. 	To:	District Engineer U.S. Geological Survey P.O. Box 2550 Billings, MT 59103								
	From	2705 Montana Avenue Suite 300 Billings, MT 59101								
	·	ect: Pollution Report  Fire or  1_X_DischargeBlowoutAccidentExplosion								
		Specific Nature and Cause of Incident Frozen water line resulted in dumping of produced water to oil stock tanks, and oil overflowing tanks.								
	2.	Location of Incident Buckles "A" #1 Contract # 14-20-0256-5066  NE NW Sec. 22, T28N, R51E, Roosevelt County, Montana								
	3.	Description of Resultant Damage and Volume of Pollutant Discharged Est. 90 bbls crude oil contained within tank battery dike with no resultant damage.								
	4.	Date and Time of Occurrence 5:00 p.m. to 7:00 p.m. 1-16-82								
		Length of Time Required to Control Incident or Contain Pollutants Immediately controlled by well shut-in.								
	6.	Action Taken to Prevent Recurrence Insulate above ground section of water dump line to prevent freezing.								
	7.	Measures Taken to Clean Up Pollutants Suctioned into vacuum truck and returned to tank battery.								
	8.	The make or manufacturer, size, working and test pressures, date of installation, type of use, physical damage, etc., of any equipment causing or directly involved with the incident								
	9.	Other Federal or State Agencies Notified of Incident  Montana Oil & Gas Conservation Commission, Billings, Montana								
		nature Le O. Heath Date 1-18-82								
	m: L	na Drilling and Production Manager								

#### MONTANA

#### SPILL REPORT FORM

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To:	District Engineer U.S. Geological Survey P.O. BOX 2550 BILLINGS, MT 59103
Fro	m: TXO PRODUCTION CORP. P.O. BOX 1165 WILLISTON, ND 58801
Sub	ject: Pollution Report
Spi	Fire or  11 X Discharge Blowout Accident Explosion
1.	Specific Nature and Cause of Incident
	STUCK VALVE RESULTED IN DUMPING OF PRODUCED WATER TO OIL STOCK TANK, AND OIL OVERFLOWING TANKS.
2.	Location of Incident BUCKLES "A" #1, CONTRACT # 14-20-0256-5066 NE WN SEC. 22, T28N, R51E, ROOSEVELT COUNTY, "MONTANA.
3.	Description of Resultant Damage and Volume of Pollutant Discharge EST. 200 BBLS CRUDE OF CONTAINED WITHIN TANK BATTERY DIKE WITH NO RESULTANT DAMAGE.
`4.	Date and Time of Occurrence 4:15 am to 7:15 am on 10-19-82
5.	Length of Time Required to Control Incident or Contain Pollutants IMMEDIATELY CONTROLLED BY WELL SHUT-IN.
6.	Action Taken to Prevent Recurrence REPLACED VALVE.
	en en en en en en en en en en en en en e
7.	Measures Taken to Clean Up Pollutants
	SUCTIONED INTO VACUUM TRUCK AND RETURNED TO TANK BATTERY.
8.	The make or manufacturer, size, working and test pressures, date of installation, type of use, physical damage, etc., of any
V.	equipment causing or directly involved with the incident
	N/A
9.	Other Federal or State Agencies Notified of Incident
	MONTANA OIL & GAS CONSERVATION COMMISSION, BILLINGS, MONTANA
Sig	nature 7. Carp Date 10-19-82
Tit	le PRODUCTION SUPT.
	MAR02-0505 MAR-505

**MAR-506** 

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### TEXAS OIL & GAS CORP.

#### OIL SPILL REPORT RECORD

			•		
Intra-Company Data	:				
State MONTANA	County_RC	<u>OSEVELT</u> Opera	tion_PRODUCTION_	·	_
Report Called in	By T. CRO	FT	@ 9:00 am on	10-19-82	_
Spill Discovered		DIIMD	@ 7:15 am on	10-19-82	
Estimated Time of	f Spill <u>4:1</u>	5 am to 7:15	am on 10-19-82		
How Did Spill Occ	cur? (Corrosi	on leak, stuffin	g box leak, broken f	low line, etc.)	
STUCK VALVE R	ESULTED IN	OVERFLOW OF O	IL STOCK TANK.		_
Can Material Get	into a Water	way? <u>NO</u> Di	d Spill Get in Water	way?NO	· -
Name of Waterway	NA		· ·		<b></b>
			·		50 *
Notification Data:					- 1
Geographic Locati	ion of Spill_	NE NW SEC. 22	2 T28N R51E MPM	<del></del>	<del>-</del> .
•	<u> </u>				- -
Amount of Spill	200 BBLS OI	LBasis_	EST.	·	
Amount Recovered	190 BBLS OI	L How Recov	ered VACUUM TRUCK		· · ·
Nature of Spill (	(Substance)	CRUDE OIL			_
Distance to Water	way (Name of	tributary and it	s flow designation)_	· .	_
3 MÏLES WEST 1	O POPLAR R	IVER, FLOWING	SOUTHERLY	·	
			nment and cleanup pr	ocedure used.)	
COMPLETELY CON	JTATNED TNS	THE TANK DAMME	CRY DIKE		
. \		<u> </u>			-
,	ı				-
•		NOTIFICATION	LIST	MAR02-050	6
Name of Agency(Abbrev)	Location of Agency	Person Notifying	Time and Date of Notification	Person Contacted	
MINERALS MGMT	BILLINGS,	MT T. CROFT	8:00 am 10-	20-82 WARREN KO	RINEK
USGS	BILLINGS.	MT <u>T CROFT</u>	8:50 am 10-	19-82 KATHY GRO	OMS
MT O & GCC Date 10-20-82	BILLINGS,	MT T. CROFT Report Prep	9:05 am 10-3	19-82 TOM RICHM	10ND

# JOHNSTON-MACCO

# Schlumberger

# technical feport

TEXAS OIL & GAS CORP.

BILLINGS DISTRICT

APR 28 1981

```
! COMPANY: TEXAS OIL & GAS CORPORATION
                                              CUSTOMER: SAME
             2705 MONTANA AVE.: SUITE 300
             BILLINGS. MT. 59101
I WELL: BUCKLES #A-1
                                              LOCATION: -
1 TEST INTERVAL: 5788 TO 5848'
                                              FIFLD:
                                                        POPLOR
I TEST NO: 1
I COUNTY: ROOSEVELT
                                              TEST DATE: 4-15-81
I COUNTY: ROOSEVELT
I TECHNICIAN: ENNO (WILLISTON)
                                              STATE: MONTANA
                                             TEST APPROVED BY: MR. MICHAEL B. WALEN
                             ---- EQUIPMENT AND HOLE DATA ------
                                 I TEST TYPE: M.F.E. OPEN HOLE
                                                                                    FT.
                                                                                   IN.
I ELEVATION: 2097
I TOTAL DEPTH: 5840
                      2Ø97
                                                                                   FT.
                                                                                   ΙN
 MAIN HOLE/CASING SIZE: 7 7/8
                                                                                   FT.
L RAT HOLE/LINER SIZE: -
                                                                                    FT.
 FORMATION TESTED: CHARLES C
                                                                                   FT.
                                   FT. DEPTHS REF. TO: KELLY BUSHING
 NET PROD. INTERVAL: 22
POROSITY: 10
    ----- TEST TOOL CHAMBER DATA ------ ---- ---- MUD DATA -----
 SAMPLER PRESSURE: 25 PSIG I TYPE: SALT WATER GEL STARCH I RECOVERED OIL GRAVITY: - API @ - DEG. F. I WEIGHT: 10.4 LB/GAL. I RECOVERY GOR: 47 FT3/BBL. I VISCOSITY: 42 SEC. I WATER LOSS: 14.0 CC I SAMPLE CHAMBER CONTENTS I WATER LOSS: 14.0 CC I RESIST TEMP CHLOR I FLUID VOLUME MEAS. I FLUID (OHM-M) (DEG F) (PPM) I
                                LFLUID
                .1 FT.3
34Ø CC
171Ø CC
I GAS:
l OIL:
                              .1ø 81 185øøø i i
I WATER:
                    - CC
I MUD:
I FILTRATE:
 TOTAL LIQUID: 2050 CC
     ----- REMARKS ------
```

NO. OF 'REPORTS REQUESTED: 5

FIELD REPORT NO. 34352E

1AR-50

FIELD REPORT NO .:

34352 E

CAPACITY:

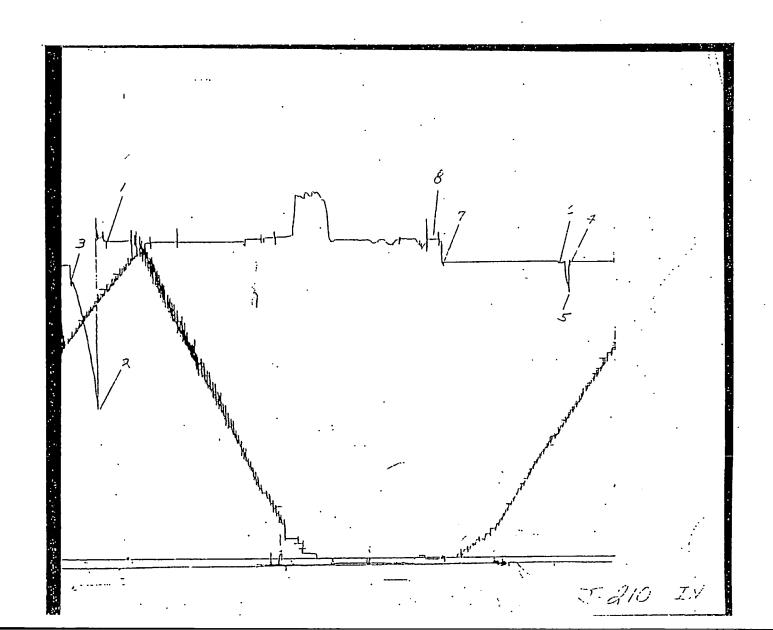
4700#

JOHNSTON Schlumberger

INSTRUMENT NO.:\_

, J-210

NUMBER OF REPORTS:\_

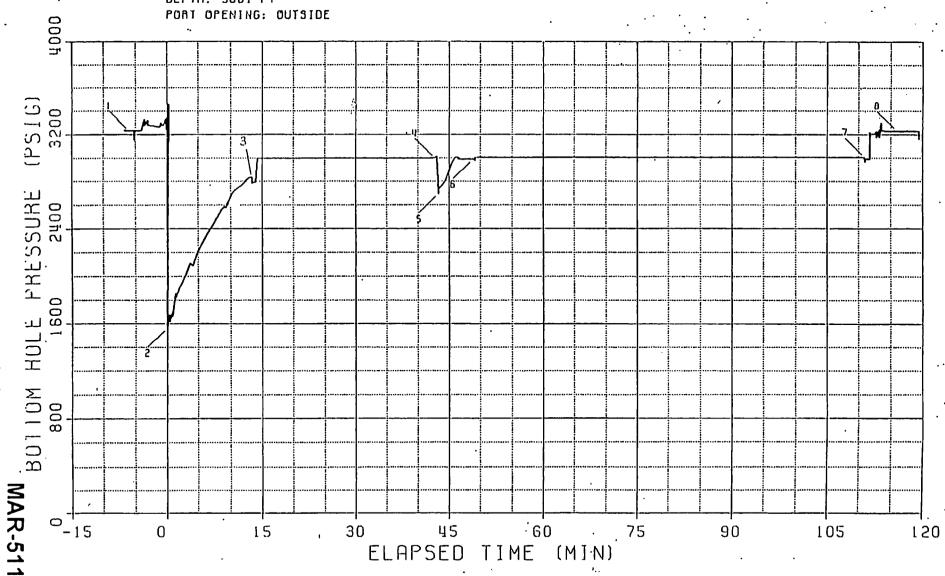


MAR-510

MAR02-0510

JS-167

FIELD\_REPORT NO. 34352E INSTRUMENT: NUMBER: J-210 CAPACITY: 4700 PSI DEPTH: 5801 FT



INSTRUMENT NO.: J-21Ø PORT OPENING: OUTSIDE

CAPACITY (PSI): 4700 BOTTOM HOLE TEMP (F): 240

DEPTH (FT): 58Ø1

			•		
EXPLANATION **********	LABELED POINT.			SED TIME (MI	
HYDROSTATIC MUD START FLOW END FLOW & START SHUT-IN END SHUT-IN START FLOW END FLOW & START SHUT-IN END SHUT-IN END SHUT-IN HYDROSTATIC MUD	1 2 3 4 5 6 7 8	3235 1579 2837 3888 2697 2998 3887 3232		-6.1 Ø.Ø 13.4 42.7 43.3 48.8 11Ø.9 116.Ø	
**************************************				•	
ELAPSED TIME FLOW PERIOD AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE START (PS	IG) END (PS	SIG)
1	13.4° 48.8	13.4 5.5	157Ø 2697	283 299	
**************************************	S *				
ELAPSED ELAP SHUT-IN TIME AT TIME PERIOD START (MIN) END (	AT SHUT-IN MIN) (MIN)	AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
	2.7 29.2 Ø.9 62.1		3ØØØ 3ØØ7	2837 299ø	13.4 18.9

MAR02-0512

**MAR-512** 

FIELD REPORT NO. 34352E INSTRUMENT NO. J-21Ø

TEST PHASE : FLOW PERIOD # 1

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
5. ,		
Ø.Ø	ø.ø	157Ø
5.Ø	5.Ø	2218
1Ø.Ø	10.0	2671
13.4	13.4	2837 • *

TEST PHASE : SHUT-IN PERIOD # 1

- 1. FINAL FLOW PRESSURE ["P\_\_"] = 2837 PSIG
- 2. PRODUCING TIME ["T "] = 13.4 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P "]	LOG [(T +DT)/DT]	DELTA PRESSURE [P - P ] WS WF
13.4	ø.ø	2837		Ø ·
14.4	i.ø	2999	1.160	161
15.4	2.0	2999 .	Ø.888	162
16.5	3.0	2999	Ø.739	$16\overline{2}$
17.5	4.0	2999	Ø.64Ø	162
18.5	5.Ø	2999	Ø.567	162
19.5	6.0	2999	Ø.511	162
2Ø.5	7.ø	2999	Ø.466	162
21.5	8.0	2999	Ø.428	162
22.5	9.0	2999	ø.397	162
23.5	lő.ő	2999	ã.37ø	162
25.5	iã.ã	2999	ø.327	Î 6 2
27.5	14.0	3000	Ø.292	162
29.5	16,0	3000	Ø.265	163
31.5	18.0	$3\widetilde{\varrho}\widetilde{\varrho}$	Ø.242	163 ·
33.5	20.0	3000	ø.223	163
35.5	22.0	3000	. ø. 2ø7	163
37.5	24.0	3000	Ø.193	163
39.5	26.0	3000	Ø.181	163
41.5	΄ 20 α	3 W W W .	ø.17ø	163
42.7	29.2	3000	Ø.164	163
74.1	23.2	50000 (conf.)	D.104	103

ELAPSED TIME	DELTA TIME	FLOWING PRESSURE
(MIN)	(MIN)	(PSIG)
*****	*******	*********
<del>*</del>	•••	
43.3	ø.ø	2697
48.3	5.Ø	2989
48.8	5.5	299Ø

TEST\_PHASE .: SHUT-IN PERIOD # 2

- 1. FINAL FLOW PRESSURE ["P "] = 2990 PSIG ."
- 2. PRODUCING TIME ["T"] = 18.9 MIN

	PSED TIME (MIN)	DELTA TIME ["DT"] (MIN) ************************************	SHUT-IN PRESSURE ["P "] . WS (PSIG) **********	LOG [(T +DT)/DT] P *******	DELTA PRESSURE [P - P ] WS WF ************
	48.8	Ø.Ø	299ø		ø
	49.8	1.0	3ØØ7 :	1.299	18
	5Ø.8	· 2.Ø	3ØØ7	. 1.019	18 :
	51.8	3.0	3ØØ7	Ø.864	18
	52.8	4.0	3ØØ7	- Ø.758	18
	53.8	5.Ø	3007	Ø.68Ø	18
	54.8	6 <b>.</b> Ø	3ØØ7	Ø.618	18
	55.8	7.Ø	3ØØ7	Ø.568	18
	56.8	. 8.Ø	. 3øø7	Ø.527	18
	57.8	9.0	3ØØ7	Ø.492	18
	58.8	1Ø.Ø	3ØØ7	Ø.461	18
	6Ø.8	12.0	3ØØ7	Ø.411	18
	62.8	14.0	3ØØ7	Ø.371	18
	64.8	16.0	3ØØ7	Ø.339	18
	66.8	18.0	3 <i>ØØ</i> 7	Ø.312	18
	68.8	20.0	3ØØ7	Ø.289	18
	7Ø.8	22.0	3ØØ7	Ø.269	18
	72.8	24.0	3007	Ø.252	18
	74.8	26.Ø	3ØØ7	Ø.237	18
	76.8	28.0	3007	Ø.224	18
	78.8	3Ø.Ø	3ØØ7	Ø.212	18
	83.8	35.Ø	3ØØ7	Ø.188 .	18
3	88.8	40.0	3∅∅7 .	Ø.168	18
MAR02-05	93.8	45.Ø	3ØØ7	Ø.152	18
~	98.8	5Ø.Ø	3007	Ø.139	Ī 8 .
02	103.8	· 55.Ø	3ØØ7	Ø.128	18
-0	1.08.8	60.0	3ØØ7	Ø. I I 9	18 .
Ŭ	110.9	62.1	3ØØ7	Ø.115	18 .

#### GEOLOGY INFORMATION

NAME: Buckley "A" #/
LOCATION: Section 22 -T28N-R51E Roments Co
1. Field Name: EAST Poplar  2. Surface Formation: 3. Formation Tops:  Judith River - 730  EAGLE - 1180  Muddy - 2978  Dekuta - 3236  Swift - 3694  Riverdon - 4142  Kibbey 5d - 5194  Firedon - 4142  Kibbey La - 5328  4. Zones at which water, gas, oil or other minerals are expected:  Judith River - brockish water  Makota - saltwater  Kibbey - saltwater  Kibbey - saltwater  Kibbey - saltwater  Charins - Oil
5. Total Depth: 6000' 6. Coring, logging, testing program:  No cores Possible Ost'in the Charles' C' you
Dual Laterolog- base surface CSG to TD FOC-CNC-GR-(a)- FICATH FM them to TD

7. Abnormal Conditions: NoNE

8. Oil or Gas Well: Oil-WELL completion
9. Single or Multiple Zone: SINGLE ZONE Completion

# Backlus 1#1

ACROSS & 50ft above + below the surface

Cosing shee

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RIVER BETWEEN the Surface casing +

Across + 50ft above + below the Judith.

Production Casing +

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CA JAU 11,1994 - @ 3,20 PM



#### TXO PRODUCTION CORP.

# DENVER DISTRICT INTER-OFFICE MEMORANDUM

	Date: <u>January 23, 1984</u>
To: Well File	From: Howard J. Gordon
	Re: Buckles "A" #1
	Section 22-T28N-R51E
	Roosevelt County, Montana

No potential zones exist above the completed Charles "C" zone in this well. The only shows reported while drilling were within the interval completed. It is therefore recommended that the above mentioned well be plugged when the current producing interval is no longer economic.

Howard J. Gordon

HJG/cjd

xc: Bill Siruta Ron Dashner Phil Kriz



#### TXO PRODUCTION CORP.

# DENVER DISTRICT INTER-OFFICE MEMORANDUM

•	Date: <u>reb. 24, 1964</u>
To: R. E. Dashner	From: P. A. Kriz
	Re: Recommendation to P & A the Buckles "A" #1, Buckles "B"
	#1, and the Buckles SWD wells in Roosevelt Co. Montana

LEASE NAME:

Buckles "A" #1, "B" #1, and SWD #1

LEASE NUMBER:

46529, 92287, 7839

TXO WORKING INTEREST:

100%

PRESENT PRODUCTION:

Shut in

CUMULATIVE PRODUCTION:

8189

CUMULATIVE INVESTMENT:

1,524,295

CUMULATIVE NET INCOME:

-47,357

The Buckles "A" #1 and "B" #1 are 100% WI, Madison oil wells in the Popular Field in Roosevelt County, Montana. The Buckles "A" #1 was spudded on April 1, 1981 and was perforated at 5796' to 5800' in the Madison-Charles "C" zone. The initial test production on May 4, 1981 was 82 BOPD and 887 BOPD. The well had a strong water drive and produced large quantities of corrosive water. The Buckles SWD #1 well was drilled on May 13, 1981 to dispose the Buckles A #1's water production into the Judith River formation. The Buckles B #1 was spudded on August 11, 1981, no economic production was found and the well was temporarily abandoned and left as a possible injection well for the Buckles A #1.

The Buckles A #1 and SWD #1 have been plagued with numerous shut ins due to leaks in pipes caused by the corrosive water production. The salt water disposal well has pressurized to the point that further injection will probably cause leaks in the corrision fatigued casing and allow communication to the surface. Surface communication was a problem while drilling the SWD well due to its shallow depth and would prove to be both difficult and costly to repair. Furthermore, the well is an indian lease on the Ft. Peck Indian Reservation and surface leaks could lead to legal action against TXO.

Plugging Recommendation 2/24/84 - Page 2

The Buckles A #1 was shut in on November 21, 1983 due to high discharge pressure to the SWD well. The well was producing approximately 6 BOPD and 900 BWPD when it was shut in. At the present production rate the well can not cover any additional expenditures that would come from drilling another injection well or converting the Buckles B #1 to a disposal well.

Uphole potentials were evaluated with geology and no additional prospective zones were found. Furthermore, based on the history of the producing zone, further stimulation on workover would not enhance production. At the present production decline the Buckles A #1 is only 3 months from its economic limit of 3.4 BOPD.

In view of the facts presented, it is recommended that the Buckles A #1, Buckles B #1, and the Buckles SWD #1 be plugged and abandoned. The cost for plugging the wells would be approximately \$53,400. The salvage value that is expected to be recovered is approximately \$65,300.

Please review and advise on the plugging of the Buckles A #1, B #1, and SWD #1 wells.

PAK/ja

# GAS PRODUCTION RECORD

TXO-82

BUCKLES "A" //1

Sinte Montana Field East Poplar /
County Roosevelt Pool

			<del></del>									<u></u>		Shut-in Pressure			<del></del>	
Non n		Gas Prodi	Constative Gas Production			Condensate Production				Completiv		- Gis - R.	Liquid Rio	2 pal-in	Bottom Hole	Test Die	33 H	
Contikire	=						-				. <del></del>					Const Asia		F
J= 81		•								Dazzy						·		<del> -</del>
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Apr.	_						H											╢
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· Jøl. •	-								908			607			<del></del>	114		├
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Sep.		.,			٠,	<u> </u>	┪		520	. 191.		737					्रे केटलिंट से <b>का</b> र्य कर	├╌
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ېن Nov.		••		- 1	-1-		$\vdash$	<u>·</u>	394			631		<u> </u>		· 3-442	a Marine Contract	-
Dec.				,		· ·			384	<del></del>		015					4.00	<del>                                     </del>
: Total						<u> </u>	1. 1	···	1000	· ·		0/3	. ;		j			<del>                                     </del>
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	\$ \$ \$ -	· - / /				
0,000	Texas Oil	& Gas Corp.		BEC No	TXO PRODUCTION Buckles "A" #1	nie Ne.
MAR	·			Zone	East Poplar Roosevelt s,	Montana 83.75%
MAR02-0521	,,					
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04.1 MCF						
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MAR-521						
21						



# TEXAS OIL & GAS CORP.

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	$^{\prime}$	
	•	LEASE BUCKLES A WELL No.
		SECTION 23 T 28N R 518
	• • •	COUNTY ROOSEVELT STATE MT
		GL. 2085 , KB. 2097
	•	GL, KB
	1	
:		
ļ		~ 8 g" @ 1220'
ل	{	Production Coning 5: 3%
	'	Production Cosing; Size 5/2 Grades K-55 W1. 17 / 155   Ibs./11. Set at 5933 w/ 560 E/S.
		20:1-5 - 17#
; ·	.	20 ; ts - 17# 102 ; ts - 15.5#
, , :		Tubing size: 23 wt 6.5 Length 50,70 Goods To
		Tubing size: 23 wt 6.5 Length 5(,70 Grade J-):  size: wt. Length Grade J-):
		And the state of t
		Pocker type: MODFL F W/TP ID Depth_5610
1		
		_ 5670
		SURFACE CMT JOB REWULFED TWO(2) ADDITIONAL
•		" OMT JURG DOWN DINCK SIDE TO STOP WHTER FLOW
•		
:		
•		← DV Tool @ 5200'
•		
12411		
		Perforations 5796 - 5800 No. Holes 17 Size
		Formation ChitRLES 'C'
	. ( :	
		PRID 5602
		MAR02-0522

# PLUGING PROCEDURE

- 1.) N.A TREE
- 2.) MIRU WIRELINE UNIT
- 3) SET PLAP THROUGH PLUC IN F NIPPLE IN
- 4) SET JU BOP
- 5.) MIRU & WORK RECTOR
- 6.) SQUEEZE 150 SXS of CEMENT INTO PERFORATION
- 7.) I THE 150 SKS CANNOT ALL BE SQUEEZED

  BELOW PACKER, STING OUT OF PACKER LUD

  PUMP REMAINING CEMENT ON TOP OF PACKER.
- 8.) IF the first 150sx squeeze Job IS COMPLETELY PUMPED OFF, STING OUT of PACKER AND Spot 10sxs of Cement on THE PACKER.
- 19.) TOOH W/2%" TURING
- 10.) Cut 5 = "CASING @ 1250 AND TOOK"
- 11) TIH W/2%" TUBING AND Spot 40 5x5 COMENT
- 12.) Spot 105x5 CEHENT @ SURFACE
- 13.) Cut CASING 4 feet BELOW SURFACE
- 14.) WELD CAP, BURY, AND DO NOT LEAUS
- 15.) TRANSFER TUBULARS AND SURFACE Equipment to RAYHOND YARD.

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TOTAL PLUCIEDE COST \$27,000

MAR02-0524

SALVAGE VALUE

8=="+5="-3000=

TUBING HEAD

Gulfco' 11-3000 + 7 1/6" - 5000 + 2%" TypE DHHC

HEATER TREATER NELLO' G\*20 VERT. TREATER

STOCK TANKS 4 - EMPIRE 400 BBL /2/+20 IR

TROUGHTURE PUMPS ROPER TYPE 1 GEAR PUMP MOD 2ARPI W/2Kp motor

DATON SHP elecTRIC MOTOR

MAR02-0525

\* THE PRODUCTION CASING + TUBING WERE SALVAGED, BECAUSE THEY ARE HIGHLY from the CORDSIVE WATER PRODUCTION

R - 11 - 1 #1	***
Buckles A#1	The second secon
D ACROSS & 50 A abou	e + below +1.
Ligh porosity ZONO	
D 50 ft ADOLE & BELL	
casing 2 os Lare how months	7 3 19
Across + 50H Yabod	1 1 663 46 T. a-=
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RIVER BETWEEN WER	25
(7) Set 25 th plug to	4' 61 - 1
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cut of CASINO, B	47
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VERRAL A	C
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MAR02-0526

5 inbetween prod csy & surf csg
15 e surf 100
35 ontop phr son
25 into pro

[a 50' in \$ Out

MAR02-0527

	Buckles	"A" " 1				(			
17. 181 SO SHEELS S SOUARE 17. 182 100 SHEELS S SOUARE 17. 182 100 SHEELS S SOUARE 18. 18. 18. 18. 18. 18. 18. 18. 18. 18.	9-9-83 9-10-83 9-12-83 9-13-83 9-16-83 9-18-83 9-19-83 9-20-83 9-20-83	Well Well	produced produced	8203100108100 10000"	80 ≱	w in	29 hr	Repair 5.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

PRICE /BBL

MAR-529

9-6-83

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1400

1400

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TNO Product	ion Corp.	Daily Comp	letion Report	0a ce_	.,
1. Well Bu	cKles "A" # Operations	1 Contractor		Days	
11. Type o Added Swabbe	f Fluid In Hole to System_ d Today	F bbls Lo bbls Total Swa	luid Level_st to Formation_bbedbbls L	Wt. bbls Tota eft to Recover	ppg. bbls bbls
111. PBTD_ Open	Perīs	. др	Packer@Formation		se Plug@
1V. Test D Choke/	ata: Type of Te Orfice	st TP ps	ig CPp	sig Race	
V.					
From - To	1 0	^ -	Remarks		
7-2-83		Pump. Well but	BO 3 9		7-1-83. in 18 hrs.
7-3-83	11				24 hvs
7-4-83	* 1	11 24		90 ":	′,
7-5-83	11			.00 "	1,
7-6-83	()	" 21	4.	00	
7-7-83	11	" 12	" 8	∞ BW.	Pump was
	do wi	th Hi/Lo li	ght on.		
7-8/7-13	Down, Pro	Jucrd 10 BO	while testing	pump.	
7-14-83	Back on	700 om 7-13-83.	/	• •	ced 2 timers
	adj. press.	control switch (	Western Valley	Charlee #	540.45)
	15 BO 3	-800 BW in	12 hrs.		
7-15-83	Well prod		D 3 1400	Bw in	24 hrs
7-16-83	11 / 10				11
7-17-83	- 41	. 17		14	11
7-18-83	1 1/1 (	6	600	BW in 12 hr.	5. Down on High Pros
7-19-83	<i>i i</i>	1. 23 11		BW : 24 1	,
Tbg. Detail	- SizeWo	GradeN	o.JcsLanded		
· · · · · · · · · · · · · · · · · · ·	10			Expnd Dail	v Cuml
Csg.	aily  Cuml	Expnd Dail Perf.	v Cuml	Water	, Journal
Tbg.		Log.		Misc.	,
Wellhead Pkr/ecc.		Stimulación   Rentals		<del>                                     </del>	MAR02-0530
Supervision		Rig		Daily	
Mud&Coem	_	Cmt.		Brought FWD Total Cuml	MAR-530
Logging		Csg.Crew		TOCAT CHMT	IAIWIY-200



#### TXO PRODUCTION CORP.

# DENVER DISTRICT INTER-OFFICE MEMORANDUM · · · ·

		Date: August 20, 1982
To: R.A. Varela	From:	E.J. Quinlan, III
	Re:	Buckles A #1

The referenced well has been shut-in since May 9; 1982 due to a corrosion leak in the salt water disposal (SWD) line to the injection well. The wellwiszcapable of producing an average of 12 BOPD and 1400 BWPD. The monthly operating expenses average \$3000...;

In order to regain production, the heavy steel wall flowline from the treater to the injection pump needs to be replaced with a fiberglass line. The liners in the injection pump and pit need to be replaced and the overflow pit needs additional dirt work.

Economics:

(364 BOPM) (.833) (\$29/BO) - \$3000 = \$5812/month

Repair Cost:

\$15,000 (See AFE)

Payout:

 $\frac{$15,000}{5.812/\text{mo}} = 2.6 \text{ mo}.$ 

TXO WI 100% NRI 83.33%

MAR02-0531

<sup>)</sup>… MAR-531

SND NEW

MAR02-0532

PHYROLS E 400 Bb1 FIRE WALL 250 REPLACE W/ FORER GLASS. 40 TPLAFel LEAK. 200' 50'

28%

SKE TUH

#### TEXAS OIL & GAS CORP.

	•	
POSEUELL COUNTY	MONTHLY SUMMARY OF PRODUCTION AND STORAC	ΞE

STATE

Ô I			
Buckels LEASE	· &	WELL	NC
Poolar	<b>.</b> ,	ELDIZ	ON

STATE										ų	HONTH May 19 20								- Captur FIE							
		OIL	CONDEN	SATE	RODU	CTION	7-	OIL/	CONDENS	ATE PF	10000			<del></del>	PELIN			PRODUCTION DATA								
TANK NO. G. B. J.D.			) TA!	FANK NO. 88 393			NK NO.		TANK NO				P/L	OPE	HING HING	CLOS			CATINO	GAS PROD.	WTR.	OIL				
os			<del></del>		-	(19.)		IH.	AAAAECS	77.	"	**************************************	TANK NO.	TICKET	PT.		FT.		RUNS BARRELS	731	MCF/D	FROD. BBLS.	F#00.	SALES LIME PRESS,	PROD.	REMARK
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_	EMARKS: (Workovers, pulling Jobs, any sudden changes in wells, etc.)																			1. Cla	ising Gau	74		٠ الكف ا		
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October min.  MAR02-0533											<del>-</del>	Jonatur	of Pu	maer				4.00	ening Cau	ge (Closh	ng Gaug	of Previous Month 504:				
3 roke Length IVIARUZ-US33											7	. 01 Pu	<u> </u>	15			5. C/c	211 Produc	: 11on (3 N	11nus 4)	o of Previous Month) 504.					
																		<b>-</b> -	: 44							

MAR-533

Signature of Pumper

T. Carlo

ROOSeVelT monTune

MONTHLY SUMMARY OF PRODUCTION AND STORAGE

D	11	,#/
Duc	Mes	A
	-	

LEASE & WELL NO

East Popla L FIELD IZONE

	OIL/CONDENSATE PRODUCTION OIL/CONDENSATE PRODUCTION										PIPELINE SALES										TION D	1				
	TANK NO. 88322 TANK NO. 88323			TANK NO. TANK NO.						11-4		DNING	cLo	BIHG		CARING			1000			1				
	P. T.	IN.	RANNELS	PY.	IN.		PT.	1N	BANNELS	PT.	iw.	-	TANK	TICKET	a.v	Uak	GAI	Jac	BARRELE	******	BAS PROD.	PROD.	01L	SALES LINE	HRS.	REMARK
5	18	103/4	384.96	15	0/4	309.72			Le se La					NO.	FT.	IN.	FT.	IN.	7000757	**1	23514	BBLS.	8841.	FRESE.		
1	xt.	n	•		14	11														0		1200	-		1	wall Flowed
3	11	11	1.	10	it	H.				-				-						0	Fa' incomed	1200	-		14	WaTEL NO
	yı	it		10	11	11											1			0		1200	-		14	oil.
5	-11.	11	4	H	11	4												-		0		1200	-		14	
	17.	y	4y	il	*	n														0		1200	-		14	
7	49.9	*4	9	02	07	57.89		1						1						0		/100	(25/.83	)	24	Recycled Task 14:0
	w	V	H	03	06	76.19			1											0		1200	18.40		14	
1	iii.	q	4	04	03	91.32					-									0		1100	15.03		14	dove
0	'n		39		00	106.35		Je I												0		6200	15.03		14	~
t	18	02/4	371.59	06	01	128.06														0			8.34		14	
2	11	0	14	06	10	143.09						( = L = [								0		1200	15.03		24	
3	u	11	"	07	08/4	160.11							+							0		1200	17.12		24	
4	"	li i	. 71			175.65				11										0		1100	15.44		24	Recycled From 22
5	09	03/4	192.00	18	023/4	371.57														0		1200	16.41		24	
	10	100 /4	207.86	13	0/1/2	269 18		Tr.	1				88323	6-65	1/8	023/4	13	01/2	102.39	0		1100	1586		14	
7	10	10	113 32	13	01/2	H		i i										7.10		0		1200			24	
	11	09	241.70		10	"/														0		1200			24	olc
	12	07	258.4/	"	24	4														0		1200			24	RAP
a	13	0/	268,43	n.		1r						1								0		1200			14	Te"
1	13	10	283.46	. 4	- vj	t,														0		1200			24	10 1 2 5
z	114	07	298.48	"	it	11														0		1100 /	15.02		24	£3/-
3	115	106/	317,49	11	11	11											1.0			0		1200	19.21		24	
4			328.55		7	n n				-4.0	-							1		0		1200	10886		24	
1	116	10	3 43.59	1	n	9														0		1200 1	15.04		24	4
	17	03	351.95	•	ji.	u							88323	688	13	01/2	08	01/4	100,60	٥		1200			24	10
7			366.99		04	52.87							88323	689	08	01/4	02	04	115.69	0		1200			24	
	10	08%	380.78	- 15	-	1.														0		1200			24	
9.	1/0	101/	384.54	03	091/4	81.72			100								Y			0		1200			24	
-	1.0	1	101.01	05		106.35									-	-				0		1200	14.63		24	
-	-	-		-		100.00		-															-		_	
-	12	10%	384.54	05	08	119.7/														0		1100	13.36		24	
	1/0	10/1	10001		1.	11111											1					16,000 /				30 days

AR-534

Size & Langth

is per min. Length

Cycle

MAR02-0534

Signature of Pumper

2. Pipeline Runs (Gross) For Month

3. Sum of 1 and 2

5. Gross Production () Minus 4)



# TEXAS OIL & GAS CORP.

LEASE BUCKLES A- WELL No.    SECTION 22 T 28N R SIE  COUNTY POOSEYFLT STATE MT.  GL. 2085 KB. 2007
Production Casing: Size 5½ Grades K-55  W1. 17 / 155 Ibs./11. Set at 5933 w/ 560 5/5.  Tubing size: 23 w1. 6.5 Length 56.70 Grade 5 size: w1. Length Grade Depth 56.00
SURFACE CMT JOB REGIONERD TOUGHT ADDITIONAL  OMT JUBY DOWN BACK SIDE TO STOP WHER FLOOR
Perforations 5796-5900 No. Holes 17 Size Formation ChiRLES 'C''  PBTD 5692
MAR02-0535  MAR02-0535  MAR-535